

Davis, M.  
09/748  
743825

09/743825

FILE 'REGISTRY' ENTERED AT 15:58:21 ON 12 AUG 2005  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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Property values tagged with IC are from the ZIC/VINITI data file  
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STRUCTURE FILE UPDATES: 11 AUG 2005 HIGHEST RN 859751-76-1  
DICTIONARY FILE UPDATES: 11 AUG 2005 HIGHEST RN 859751-76-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS  
for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

0 GCATGTTACAGGTAGAAAAGCC/SQEP  
123660 SQL=22  
L1 0 GCATGTTACAGGTAGAAAAGCC/SQEP  
(GCATGTTACAGGTAGAAAAGCC/SQEP AND SQL=22)

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335042 SQL=21  
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(CTGGCGTATCTGAAGAGTCTG/SQEP AND SQL=21)

0 GACCGCATAGACTTCTCAGA/SQEP  
452450 SQL=20  
L3 0 GACCGCATAGACTTCTCAGA/SQEP  
(GACCGCATAGACTTCTCAGA/SQEP AND SQL=20)

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FILE 'HOME' ENTERED AT 15:58:30 ON 12 AUG 2005

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09/743825

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(FILE 'HOME' ENTERED AT 15:22:24 ON 12 AUG 2005)  
DEL HIS Y

FILE 'REGISTRY' ENTERED AT 15:58:21 ON 12 AUG 2005  
L1 0 SEA ABB=ON PLU=ON GCATGTTACAGGTAGAAAAGCC/SQEP  
L2 0 SEA ABB=ON PLU=ON CTGGCGTATCTGAAGAGTCTG/SQEP  
L3 0 SEA ABB=ON PLU=ON GACCGCATAGACTTCTCAGA/SQEP

FILE 'HOME' ENTERED AT 15:58:30 ON 12 AUG 2005

#### FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 11 AUG 2005 HIGHEST RN 859751-76-1  
DICTIONARY FILE UPDATES: 11 AUG 2005 HIGHEST RN 859751-76-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

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\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
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\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMI  
for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

FILE HOME

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Davis, M.  
09/743825  
Seq IDs 7, 8, 110

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 05:00:31 / Search time 1565 Seconds  
(without alignments)  
681.160 Million cell updates/sec

Title: US-09-743-825-7

Perfect score: 22

Sequence: 1 gcatgtacaggtagaaagcc 22

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 952800

Minimum DB seq length: 0

Maximum DB seq length: 22

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : GenEmbl.\*

- 1: gb\_ba.\*
- 2: gb\_hhg.\*
- 3: gb\_in.\*
- 4: gb\_om.\*
- 5: gb\_ov.\*
- 6: gb\_pat.\*
- 7: gb\_ph.\*
- 8: gb\_pl.\*
- 9: gb\_pr.\*
- 10: gb\_ro.\*
- 11: gb\_ats.\*
- 12: gb\_sy.\*
- 13: gb\_un.\*
- 14: gb\_vi.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	15.2	69.1	20	6 AR314796	Sequence
C 2	13.2	60.0	21	6 AR374844	Sequence
C 3	13.2	60.0	21	6 AX139516	Sequence
C 4	13.2	60.0	21	6 BD014939	Lawsonia
C 5	12.8	58.2	19	6 BD231604	Chromosom
C 6	12.8	58.2	20	6 AX405008	Sequence
C 7	12.8	58.2	21	6 CO876341	Sequence
C 8	12.2	55.5	18	6 AR139875	Sequence
C 9	12.2	55.5	18	6 AR167519	Sequence
C 10	12.2	55.5	18	6 AR234243	Sequence
C 11	12.2	55.5	18	6 AR293044	Sequence
C 12	12.2	55.5	18	6 AR476160	Sequence
C 13	12.2	55.5	18	6 AR488045	Sequence
C 14	12.2	55.5	18	6 BD084547	Recombina
C 15	12.2	55.5	20	6 AR207150	Sequence
C 16	12.2	55.5	20	6 AR271107	Sequence
C 17	12.2	55.5	21	6 AX378485	Sequence
C 18	12	54.5	20	6 AR118897	Sequence
C 19	12	54.5	20	6 CQ763548	Sequence

C 20	12	54.5	20	6 AR297958	Sequence
C 21	12	54.5	20	6 AX405002	Sequence
C 22	12	54.5	21	6 AX133296	Sequence
C 23	12	54.5	22	6 CQ848304	Sequence
C 24	11.8	53.6	17	6 BD063649	Sequence
C 25	11.8	53.6	19	6 AR294337	Sequence
C 26	11.8	53.6	20	6 A33496	Synthetic P
C 27	11.8	53.6	20	6 AR162418	Sequence
C 28	11.8	53.6	20	6 I42395	Sequence 27
C 29	11.8	53.6	20	6 AX405006	Sequence
C 30	11.8	53.6	20	6 AX405010	Sequence
C 31	11.8	53.6	21	6 CQ854109	Sequence
C 32	11.8	53.6	21	6 CQ854110	Sequence
C 33	11.8	53.6	22	6 BD089416	A method
C 34	11.8	53.6	22	6 BD089578	A method
C 35	11.8	53.6	22	12 AB068139	Synthetic
C 36	11.8	53.6	22	12 AB068145	Synthetic
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C 38	11.6	52.7	20	6 CQ762779	Sequence
C 39	11.6	52.7	20	6 CQ763112	Sequence
C 40	11.6	52.7	20	6 BD012454	A novel g
C 41	11.4	51.8	14	6 BD199416	Method an
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C 43	11.4	51.8	17	6 BD199179	Method an
C 44	11.4	51.8	17	6 AR186046	Sequence
C 45	11.4	51.8	17	6 AR322677	Sequence
C 46	11.4	51.8	17	6 AR326882	Sequence
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C 48	11.4	51.8	17	6 AR402363	Sequence
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C 50	11.4	51.8	17	6 AR402365	Sequence
C 51	11.4	51.8	17	6 BD067862	Enzymatic
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C 54	11.4	51.8	17	6 BD067865	Enzymatic
C 55	11.4	51.8	18	6 A59434	Sequence 27
C 56	11.4	51.8	18	6 AR182188	Sequence
C 57	11.4	51.8	19	6 AR235508	Sequence
C 58	11.4	51.8	19	6 AR235535	Sequence
C 59	11.4	51.8	19	6 AR235539	Sequence
C 60	11.4	51.8	19	6 AR294949	Sequence
C 61	11.4	51.8	20	6 AR136599	Sequence
C 62	11.4	51.8	20	6 BD196199	Antisense
C 63	11.4	51.8	20	6 AR199824	Sequence
C 64	11.4	51.8	20	6 AR312888	Sequence
C 65	11.4	51.8	20	6 AR336983	Sequence
C 66	11.4	51.8	20	6 AR353685	Sequence
C 67	11.4	51.8	20	6 AR382990	Sequence
C 68	11.4	51.8	20	6 AR482396	Sequence
C 69	11.4	51.8	20	6 AR489905	Sequence
C 70	11.4	51.8	20	6 AX115518	Sequence
C 71	11.4	51.8	21	6 AR212918	Sequence
C 72	11.4	51.8	21	6 AR294892	Sequence
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C 75	11.4	51.8	22	6 BD269905	Tumor nec
C 76	11.4	51.8	22	6 E14592	PCR primer
C 77	11.4	51.8	22	6 AR287736	Sequence
C 78	11.4	51.8	22	6 AR381138	Sequence
C 79	11.2	50.9	17	6 AX215699	Sequence
C 80	11.2	50.9	17	6 AX217091	Sequence
C 81	11.2	50.9	17	6 AX727595	Sequence
C 82	11.2	50.9	17	6 AX729770	Sequence
C 83	11.2	50.9	18	6 I40592	Sequence 20
C 84	11.2	50.9	18	6 I40863	Sequence 20
C 85	11.2	50.9	18	6 I40891	Sequence 20
C 86	11.2	50.9	18	6 I56833	Sequence 20
C 87	11.2	50.9	18	6 AX785422	Sequence
C 88	11.2	50.9	20	6 A46320	Sequence 9
C 89	11.2	50.9	20	6 A70786	Sequence 10
C 90	11.2	50.9	20	6 A79270	Sequence 10
C 91	11.2	50.9	20	6 AR112896	Sequence
C 92	11.2	50.9	20	6 CQ876370	Sequence

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93 11.2 50.9 20 6 I43991 Sequence 9
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## ALIGNMENTS

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RESULT 1
LOCUS AR314796/c
DEFINITION AR314796 Sequence 5333 from patent US 6559294.
ACCESSION AR314796
VERSION AR314796.1 GI:31708222
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE
1 (bases 1 to 20)
AUTHORS Griffiths R., Hoiseth, S.K., Zagureky, R.J., Metcalf, B.J., Peek, J.A.,
Sankaran, B. and Fletcher, L.D.
TITLE Chlamydia pneumoniae polynucleotides and uses thereof
JOURNAL Patent: US 6559294-A 5333 06-MAY-2003;
FEATURES
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## ORIGIN

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RESULT 2
AR374844
LOCUS AR374844
DEFINITION AR374844 Sequence 50 from patent US 6605696.
ACCESSION AR374844
VERSION AR374844.1 GI:40077832
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE
1 (bases 1 to 21)
AUTHORS Rosey, E.L.
TITLE Lawsonia intracellularis proteins, and related methods and materials
JOURNAL Patent: US 6605696-A 50 12-AUG-2003;
FEATURES
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Db 2 TGGTACAGCAAGAAAAGC 19

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LOCUS AX139516
DEFINITION AX139516 Sequence 50 from Patent EP1094070.
ACCESSION AX139516
VERSION AX139516.1 GI:14275153
KEYWORDS
SOURCE
ORGANISM Lawsonia intracellularis
Lawsonia intracellularis
Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales;
Desulfovibrionaceae; Lawsonia.
REFERENCE
1
AUTHORS Rosey, E.L.
TITLE Lawsonia intracellularis proteins, and related methods and materials
JOURNAL Patent: EP 1094070-A 50 25-APR-2001;
Pfizer Products Inc. (US)
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Best Local Similarity 83.3%; Pred. No. 1.3e+05;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGTTCACAGGTAGAAAAGC 21
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Db 2 TGGTACAGCAAGAAAAGC 19

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RESULT 4
BD014939
LOCUS BD014939
DEFINITION BD014939 Lawsonia intracellularis protein and materials relating thereto.
ACCESSION BD014939
VERSION BD014939.1 GI:22555746
KEYWORDS JP 2001169787-A/43.
SOURCE Lawsonia intracellularis
ORGANISM Lawsonia intracellularis
Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales;
Desulfovibrionaceae; Lawsonia.
REFERENCE
1 (bases 1 to 21)
AUTHORS Rosi, I.L.
TITLE Lawsonia intracellularis protein and methods and materials relating thereto
JOURNAL Patent: JP 2001169787-A 43 26-JUN-2001;
Pfizer Products Inc
COMMENT OS Lawsonia intracellularis
PN JP 2001169787-A/43
PD 26-JUN-2001
PF 20-OCT-2000 JP 2000320736
PR 22-OCT-1999 US 60/160922
PI IBURETTO LEE ROSI
PC C12N15/09,A61K38/00,A61K39/106,A61K48/00,A61P31/04,C07K14/205,
C07K16/12,
PC C12N1/15,C12N1/19,C12N1/21,C12N5/10,G01N33/53,G01N33/569// PC
C12P21/02,
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relating thereto
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Best Local Similarity 83.3%; Pred. No. 1.3e+05;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Db 2 TGTTCACGACGAAAAGC 19

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LOCUS BD231604/c 19 bp DNA linear PAT 17-JUL-2003
DEFINITION Chromosome 17q-linked prostate cancer susceptibility gene.
ACCESSION BD231604
VERSION BD231604.1 GI:33041374
KEYWORDS JP 2002529065-A/156.
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Tavtigian,S.V., Teng,D.H.P., Simard,J. and Rommens,J.M.
TITLE Chromosome 17q-linked prostate cancer susceptibility gene
JOURNAL Patent: JP 2002529065-A 156 10-SEP-2002;
COMMENT MYRIAD GENETICS INC,THE HOSPITAL FOR SICK CHILDREN
OS Homo sapiens (human)
PN JP 2002529065-A/156
PD 10-SEP-2002
PF 05-NOV-1999 JP 2000581041
PI SEAN V TAVTIGIAN,DAVID H F TENG,JACQUES SIMARD,JOHANNA M PI
PC C12N15/09,A61K31/713,A61K38/00,A61K39/395,A61K45/00,A61K48/00,
PC A61P35/00,
PC C07K14/47,C07K16/18,C07K16/44,C12N1/15,C12N1/19,C12N1/21,C12N5/ PC
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PC C12P21/02,C12Q1/68,G01N33/15,G01N33/50,G01N33/53,G01N33/566,
PC G01N33/577,
PC G01N37/00,C12N15/00,A61K37/02,C12N5/00
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Db 19 ATGTCACGACGACGAAA 4

RESULT 6
LOCUS AX405008/c 20 bp DNA linear PAT 14-JUN-2002
DEFINITION Sequence 25 from Patent WO222634.
ACCESSION AX405008
VERSION AX405008.1 GI:21438223
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Choo,Y. and Isalan,M.

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TITLE Method for the preparation of selectively randomised nucleic acid
molecules
JOURNAL Patent: WO 0222634-A 25 21-MAR-2002;
Sangamo Biosciences Inc. (US)
FEATURES
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/note='Oligonucleotide'

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Best Local Similarity 61.1%; Pred. No. 2.1e+05;
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Db 19 TSYKCGAGKYAGAAAAGC 2

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LOCUS CQ876341/c 21 bp DNA linear PAT 04-OCT-2004
DEFINITION Sequence 191 from Patent WO2004065583.
ACCESSION CQ876341
VERSION CQ876341.1 GI:53789945
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Cobleigh,M.A., Shak,S., Baker,J.B. and Cronin,M.T.
TITLE Gene expression markers for breast cancer prognosis
JOURNAL Patent: WO 2004065583-A 191 05-AUG-2004;
Genomic Health, Inc. (US); Rush University Medical Center (US)
FEATURES
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Db 21 TTCTGGTAGAAAAGCC 6

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LOCUS AR139875 18 bp DNA linear PAT 16-JUN-2001
DEFINITION Sequence 53 from patent US 6207416.
ACCESSION AR139875
VERSION AR139875.1 GI:14482371
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Tsarev,S.A., Emerson,S.U. and Purcell,R.H.
TITLE Recombinant proteins of a Pakistani strain of hepatitis E and their
JOURNAL use in diagnostic methods and vaccines
PATENT: US 6207416-A 53 27-MAR-2001;
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AR167519  
LOCUS AR167519 18 bp DNA linear PAT 17-DEC-2001  
DEFINITION Sequence 53 from patent US 6287759.  
ACCESSION AR167519  
VERSION AR167519.1 GI:17903303  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Tsarev,S.A., Emerson,S.U. and Purcell,R.H.  
TITLE Recombinant proteins of a Pakistani strain of hepatitis E and their use in diagnostic methods and vaccines  
JOURNAL Patent: US 6287759-A 53 11-SEP-2001;  
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Db 2 GTTACAGCCAGAAAACC 18

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AR234243  
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DEFINITION Sequence 53 from patent US 6458562.  
ACCESSION AR234243  
VERSION AR234243.1 GI:27276915  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Emerson,S.U., Purcell,R.H., Tsarev,S.A. and Robinson,R.A.  
TITLE Recombinant proteins of a Pakistani strain of hepatitis E and their use in diagnostic methods and vaccines  
JOURNAL Patent: US 6458562-A 53 01-OCT-2002;  
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Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Db 2 GTTACAGCCAGAAAACC 18

RESULT 11  
AR293044  
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DEFINITION Sequence 4779 from patent US 6537751.  
ACCESSION AR293044  
VERSION AR293044.1 GI:31690328  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Cohen,D., Chumakov,I. and Blumenfeld,M.  
TITLE Biallelic markers for use in constructing a high density disequilibrium map of the human genome  
JOURNAL Patent: US 6537751-A 4779 25-MAR-2003;  
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Best Local Similarity 82.4%; Pred. No. 4.2e+05;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Db 1 TGTGAGAGGTAGAGAAG 17

RESULT 12  
AR476160  
LOCUS AR476160 18 bp DNA linear PAT 14-MAY-2004  
DEFINITION Sequence 53 from patent US 6696242.  
ACCESSION AR476160  
VERSION AR476160.1 GI:47233050  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Tsarev,S.A., Emerson,S.U. and Purcell,R.H.  
TITLE Recombinant proteins of a Pakistani strain of hepatitis E and their use in diagnostic methods and vaccines  
JOURNAL Patent: US 6696242-A 53 24-FEB-2004;  
FEATURES Location/Qualifiers  
source 1..18  
/organism="unknown"  
/mol\_type="genomic DNA"

ORIGIN  
Query Match 55.5%; Score 12.2; DB 6; Length 18;  
Best Local Similarity 82.4%; Pred. No. 4.2e+05;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21  
||||| ||||| |  
Db 2 GTTACAGCCAGAAAACC 18

RESULT 13  
AR488045  
LOCUS AR488045 18 bp DNA linear PAT 15-MAY-2004  
DEFINITION Sequence 53 from patent US 6706873.  
ACCESSION AR488045  
VERSION AR488045.1 GI:47253790  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Tsarev,S.A., Emerson,S.U. and Purcell,R.H.  
TITLE Recombinant proteins of a Pakistani strain of hepatitis E and their use in diagnostic methods and vaccines  
JOURNAL Patent: US 6706873-A 53 16-MAR-2004;  
FEATURES Location/Qualifiers

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source 1..18
/mol_type="unknown"
/mol_type="genomic DNA"

ORIGIN
REFERENCE 1 (bases 1 to 18)
AUTHORS Bennett,C.Frank, and Cowseert,L.M.
TITLE Antisense modulation of talin expression
JOURNAL Patent: US 6372492-A 44 16-APR-2002;
FEATURES
    Location/Qualifiers
        source 1..20
        /organism="unknown"
        /mol_type="unassigned DNA"

ORIGIN
Query Match 55.5%; Score 12.2; DB 6; Length 20;
Best Local Similarity 82.4%; Pred. No. 4.2e+05;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21
    ||||| ||||| |||||
Db 2 GTTACAGCCAGAAAACC 18

RESULT 14
LOCUS BD084547 18 bp DNA linear PAT 27-AUG-2002
DEFINITION Recombinant proteins of a pakistani strain of hepatitis E and their
            use in diagnostic methods and vaccines.
ACCESSION BD084547
VERSION BD084547.1 GI:22630157
KEYWORDS JP 2001524821-A/50.
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1 (bases 1 to 18)
AUTHORS Emerson,S.U., Purcell,R.H., Tsarev,S.A. and Robinson,R.A.
TITLE Recombinant proteins of a pakistani strain of hepatitis E and their
            use in diagnostic methods and vaccines
JOURNAL Patent: JP 2001524821-A 50 04-DEC-2001;
            THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS REPRESENTED BY
            THE BIO ORIENTED TECHNOLOGY RESEARCH ADVANCEMENT INSTITUTION
            SECRETARY DEPARTMENT OF HEALTH AND HUMAN SERVICES
COMMENT OS Unidentified
        PN JP 2001524821-A/50
        PD 04-DEC-2001
        PF 09-APR-1998 JP 1998544174
        PR 11-APR-1997 US 08/840316
        PI SUZANNE U EMERSON,ROBERT H PURCELL,SERGEI A TSAREV,ROBIN A PI
            ROBINSON
        PC C12N15/51,C07K14/08,C07K16/10,A61K39/29,G01N33/576 CC
        Strandedness: Single;
        CC Topology: Linear;
        CC Recombinant proteins of a pakistani strain of hepatitis E and
        CC their use in
        CC diagnostic methods and vaccines
        FH Key Location/Qualifiers
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        /mol_type="unassigned DNA"

FEATURES
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        /db_xref="taxon:32644"

ORIGIN
Query Match 55.5%; Score 12.2; DB 6; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.2e+05;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21
    ||||| ||||| |||||
Db 2 GTTACAGCCAGAAAACC 18

RESULT 15
LOCUS AR207150/C 20 bp DNA linear PAT 20-JUN-2002
DEFINITION Sequence 44 from patent US 6372492.
ACCESSION AR207150
VERSION AR207150.1 GI:21505970
KEYWORDS
SOURCE Unknown.

ORIGIN
REFERENCE 1 (bases 1 to 20)
AUTHORS Cohen,D., Blumenfeld,M., Chumakov,I., Abderrahim,H. and Bihain,B.
TITLE Obesity associated biallelic marker maps
JOURNAL Patent: WO 0206525-A 274 24-JAN-2002;
            GENSET (FR)
FEATURES
    Location/Qualifiers
        source 1..21
        /organism="Homo sapiens"
        /mol_type="unassigned DNA"
        /db_xref="taxon:9606"
        primer_bind 1..21
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ORIGIN
Query Match      55.5%; Score 12.2; DB 6; Length 21;
Best Local Similarity 82.4%; Pred. No. 4.2e+05;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21
   ||| ||| ||| ||| ||| ||| |||
Db 19 GTTTCAGATAAAAAGC 3

RESULT 18
LOCUS AR118897 20 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 23 from patent US 6150092.
ACCESSION AR118897
VERSION AR118897.1 GI:14100807
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Uchida,K., Uchida,T., Tanaka,Y., Matsuda,Y. and Kondo,S.
TITLE Antisense nucleic acid compound targeted to VEGF
JOURNAL Patent: US 6150092-A 23 21-NOV-2000;
FEATURES Location/Qualifiers
          source
            1..20
              /organism="unknown"
              /mol_type="unassigned DNA"

ORIGIN
Query Match      54.5%; Score 12; DB 6; Length 20;
Best Local Similarity 75.0%; Pred. No. 5.3e+05;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGTAGAAAAG 20
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Db 1 GCATGGTGGAGGTAGAGCAG 20

RESULT 19
LOCUS CO763548 20 bp DNA linear PAT 03-MAR-2004
DEFINITION Sequence 2166 from Patent WO2004003201.
ACCESSION CO763548
VERSION CO763548.1 GI:44906784
KEYWORDS
SOURCE
ORGANISM synthetic construct
          other sequences; artificial sequences.
REFERENCE 1
AUTHORS Kane,C.D.
TITLE Antisense modulation of lrh1 expression
JOURNAL Patent: WO 2004003201-A 2166 08-JAN-2004;
          Pharmacia Corporation (US)
FEATURES Location/Qualifiers
          source
            1..20
              /organism="synthetic construct"
              /mol_type="unassigned DNA"
              /db_xref="taxon:32630"
              /note="Human LRH1 antisense"

ORIGIN
Query Match      54.5%; Score 12; DB 6; Length 20;
Best Local Similarity 75.0%; Pred. No. 5.3e+05;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAAGCC 22
   ||| ||| ||| ||| ||| ||| |||
Db 20 ATGCCACAGGTATGAAAGTC 1

RESULT 20
ORIGIN
Query Match      54.5%; Score 12; DB 6; Length 20;
Best Local Similarity 75.0%; Pred. No. 5.3e+05;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 4 TGTACAGGTAGAAAAGC 21
   ||| ||| ||| ||| ||| ||| |||
Db 19 TGKCCGAGKYAGAAAAGC 2

RESULT 21
LOCUS AX405002/c 20 bp DNA linear PAT 14-JUN-2002
DEFINITION Sequence 19 from Patent WO0222634.
ACCESSION AX405002
VERSION AX405002.1 GI:21438217
KEYWORDS
SOURCE
ORGANISM synthetic construct
          other sequences; artificial sequences.
REFERENCE 1
AUTHORS Choo,Y. and Isalan,M.
TITLE Method for the preparation of selectively randomised nucleic acid molecules
JOURNAL Patent: WO 0222634-A 19 21-MAR-2002;
          Sangamo Biosciences Inc. (US)
FEATURES Location/Qualifiers
          source
            1..20
              /organism="synthetic construct"
              /mol_type="unassigned DNA"
              /db_xref="taxon:32630"
              /note="Oligonucleotide"

ORIGIN
Query Match      54.5%; Score 12; DB 6; Length 20;
Best Local Similarity 66.7%; Pred. No. 5.3e+05;
Matches 12; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGTACAGGTAGAAAAGC 21
   ||| ||| ||| ||| ||| ||| |||
Db 19 TGKCCGAGKYAGAAAAGC 2

RESULT 22
LOCUS AX133296/c 21 bp DNA linear PAT 15-MAY-2001
DEFINITION Sequence 4514 from Patent WO0130362.
ACCESSION AX133296
VERSION AX133296.1 GI:14139606
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

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AR297958/c
LOCUS AR297958 20 bp DNA linear PAT 12-JUN-2003
DEFINITION Sequence 9693 from patent US 6537751.
ACCESSION AR297958
VERSION AR297958.1 GI:31685242
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Cohen,D., Chumakov,I. and Blumenfeld,M.
TITLE Biallelic markers for use in constructing a high density disequilibrium map of the human genome
JOURNAL Patent: US 6537751-A 9693 25-MAR-2003;
FEATURES Location/Qualifiers
          source
            1..20
              /organism="unknown"
              /mol_type="genomic DNA"

ORIGIN
Query Match      54.5%; Score 12; DB 6; Length 20;
Best Local Similarity 75.0%; Pred. No. 5.3e+05;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGTAGAAAAG 20
   ||| ||| ||| ||| ||| ||| |||
Db 20 GTATGCTGAGGTATATAAG 1

RESULT 21
LOCUS AX405002/c 20 bp DNA linear PAT 14-JUN-2002
DEFINITION Sequence 19 from Patent WO0222634.
ACCESSION AX405002
VERSION AX405002.1 GI:21438217
KEYWORDS
SOURCE
ORGANISM synthetic construct
          other sequences; artificial sequences.
REFERENCE 1
AUTHORS Choo,Y. and Isalan,M.
TITLE Method for the preparation of selectively randomised nucleic acid molecules
JOURNAL Patent: WO 0222634-A 19 21-MAR-2002;
          Sangamo Biosciences Inc. (US)
FEATURES Location/Qualifiers
          source
            1..20
              /organism="synthetic construct"
              /mol_type="unassigned DNA"
              /db_xref="taxon:32630"
              /note="Oligonucleotide"

ORIGIN
Query Match      54.5%; Score 12; DB 6; Length 20;
Best Local Similarity 66.7%; Pred. No. 5.3e+05;
Matches 12; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGTACAGGTAGAAAAGC 21
   ||| ||| ||| ||| ||| ||| |||
Db 19 TGKCCGAGKYAGAAAAGC 2

RESULT 22
LOCUS AX133296/c 21 bp DNA linear PAT 15-MAY-2001
DEFINITION Sequence 4514 from Patent WO0130362.
ACCESSION AX133296
VERSION AX133296.1 GI:14139606
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

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REFERENCE 1  
AUTHORS Robbins,J.M. and Tritz,R.  
TITLE Ribozyme therapy for the treatment of proliferative skin and eye diseases  
JOURNAL Patent: WO 0130362-A 4514 03-MAY-2001;  
IMMUSOL, INC. (US)  
FEATURES Location/Qualifiers  
source 1..21  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
/note="VEGF hammerhead ribozyme recognition site"

ORIGIN  
Query Match 54.5%; Score 12; DB 6; Length 21;  
Best Local Similarity 75.0%; Pred. No. 5.3e+05;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 2 CATGTTACAGGTAGAAAGCC 21  
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Db 21 CATGGTCGAGGTAGAGCAGC 2

RESULT 23  
CQ848304 22 bp DNA linear PAT 19-AUG-2004  
LOCUS  
DEFINITION Sequence 9 from Patent WO2004063366.  
ACCESSION CQ848304  
VERSION CQ848304.1 GI:51469805  
KEYWORDS  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.

REFERENCE 1  
AUTHORS Steiger,S. and Sandmann,G.  
TITLE Method for producing ketocarotenoids by cultivating genetically modified organisms  
JOURNAL Patent: WO 2004063366-A 9 29-JUL-2004;  
BASF AKTIENGESSELLSCHAFT (DE)  
FEATURES Location/Qualifiers  
source 1..22  
/organism="synthetic construct"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32630"

ORIGIN  
Query Match 54.5%; Score 12; DB 6; Length 22;  
Best Local Similarity 75.0%; Pred. No. 5.3e+05;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAGCC 22  
||| ||| ||| ||| |||  
Db 1 ATGATCCAGTTAGAACACC 20

RESULT 24  
BD063649 17 bp DNA linear PAT 27-AUG-2002  
LOCUS  
DEFINITION Nucleotide and protein sequences of liver activin/inhibin and methods based thereon.  
ACCESSION BD063649  
VERSION BD063649.1 GI:22609252  
KEYWORDS JP 2001505420-A/14.  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.

REFERENCE 1  
AUTHORS Bonadio,J. and Fang,J.  
TITLE Nucleotide and protein sequences of liver activin/inhibin and methods based thereon  
JOURNAL Patent: JP 2001505420-A 14 24-APR-2001;  
THE REGENTS OF THE UNIVERSITY OF MICHIGAN  
COMMENT OS Artificial Sequence

PN JP 2001505420-A/14  
PD 24-APR-2001  
PF 20-NOV-1997 JP 1998523766  
PR 20-NOV-1996 US 08/752919  
PI JEFFREY BONADIO,JIANNING FANG  
PC C07H21/04,C12N15/00,C12NS/10,C12NS/16  
CC Synthetic oligonucleotide  
FH Key Location/Qualifiers  
source 1..17  
/organism="synthetic construct"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:32630"

ORIGIN  
Query Match 53.6%; Score 11.8; DB 6; Length 17;  
Best Local Similarity 86.7%; Pred. No. 6.8e+05;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 CATGTTACAGGTAGA 16  
||||| |||||||  
Db 1 CATGCTCCAGGTAGA 15

RESULT 25  
AR294337 19 bp DNA linear PAT 12-JUN-2003  
LOCUS  
DEFINITION Sequence 6072 from patent US 6537751.  
ACCESSION AR294337  
VERSION AR294337.1 GI:31681621  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 19)  
AUTHORS Cohen,D., Chumakov,I. and Blumenfeld,M.  
TITLE Ballelic markers for use in constructing a high density disequilibrium map of the human genome  
JOURNAL Patent: US 6537751-A 6072 25-MAR-2003;  
FEATURES Location/Qualifiers  
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/organism="unknown"  
/mol\_type="genomic DNA"

ORIGIN  
Query Match 53.6%; Score 11.8; DB 6; Length 19;  
Best Local Similarity 86.7%; Pred. No. 6.8e+05;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAA 19  
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Db 1 GTTAGAGGTTGAAAA 15

RESULT 26  
A33496/c 20 bp DNA linear PAT 30-NOV-2001  
LOCUS  
DEFINITION Synthetic P.falciiparum 155 gene PCR primer RIT34.  
ACCESSION A33496  
VERSION A33496.1 GI:1567941  
KEYWORDS  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.

REFERENCE 1 (bases 1 to 20)  
AUTHORS Holmes,M.J. and Uhlen,M.  
TITLE SOLID PHASE DIAGNOSIS OF MEDICAL CONDITIONS  
JOURNAL Patent: WO 9011369-A 21 04-OCT-1990;  
CEMU BIOTEKNIK (SE)  
FEATURES Location/Qualifiers  
source 1..20  
/organism="synthetic construct"  
/mol\_type="unassigned DNA"

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/db_xref="taxon:32630"

ORIGIN
Query Match          53.6%; Score 11.8; DB 6; Length 20;
Best Local Similarity 86.7%; Pred. No. 6.8e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 TGTTCACAGGTAGAAA 18
   ||| ||||| |||||
Db 19 TGGTACAGGCAGAAA 5

RESULT 27
LOCUS      ARI62418          20 bp      DNA      linear      PAT 17-OCT-2001
DEFINITION Sequence 98 from patent US 6258600.
ACCESSION  ARI62418
VERSION     ARI62418.1 GI:16229597
KEYWORDS   .
SOURCE      Unknown.
ORGANISM    Unclassified.
REFERENCE   1 (bases 1 to 20)
AUTHORS     Zhang,H. and Cowsett,L.M.
TITLE        Antisense modulation of caspase 8 expression
JOURNAL      Patent: US 6258600-A 98 10-JUL-2001;
FEATURES    Location/Qualifiers
             source
               1..20
               /organism="unknown"
               /mol_type="unassigned DNA"

ORIGIN
Query Match          53.6%; Score 11.8; DB 6; Length 20;
Best Local Similarity 86.7%; Pred. No. 6.8e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 8 ACAGGTAGAAAAGCC 22
   | ||||| |||||
Db 4 AGAGGTAGAAAGCC 18

RESULT 28
LOCUS      I42395/c          20 bp      DNA      linear      PAT 07-OCT-1997
DEFINITION Sequence 27 from patent US 5629158.
ACCESSION  I42395
VERSION     I42395.1 GI:2467890
KEYWORDS   .
SOURCE      Unknown.
ORGANISM    Unclassified.
REFERENCE   1 (bases 1 to 20)
AUTHORS     Uhlen,M.
TITLE        Solid phase diagnosis of medical conditions
JOURNAL      Patent: US 5629158-A 27 13-MAY-1997;
FEATURES    Location/Qualifiers
             source
               1..20
               /organism="unknown"
               /mol_type="unassigned DNA"

ORIGIN
Query Match          53.6%; Score 11.8; DB 6; Length 20;
Best Local Similarity 86.7%; Pred. No. 6.8e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 TGTTCACAGGTAGAAA 18
   ||| ||||| |||||
Db 19 TGGTACAGGCAGAAA 5

RESULT 29
LOCUS      AX405006/c          20 bp      DNA      linear      PAT 14-JUN-2002
DEFINITION Sequence 27 from patent WO0222634.
ACCESSION  AX405010
VERSION     AX405010.1 GI:21438225
KEYWORDS   .
SOURCE      synthetic construct
ORGANISM    synthetic construct
REFERENCE   1
AUTHORS     Choo,Y. and Isalan,M.
TITLE        Method for the preparation of selectively randomised nucleic acid
JOURNAL      Patent: WO 0222634-A 27 21-MAR-2002;
SANGAMO     Sangamo Biosciences Inc. (US)
FEATURES    Location/Qualifiers
             source
               1..20
               /organism="synthetic construct"
               /mol_type="unassigned DNA"
               /db_xref="taxon:32630"
               /note="Oligonucleotide"

ORIGIN
Query Match          53.6%; Score 11.8; DB 6; Length 20;
Best Local Similarity 58.8%; Pred. No. 6.8e+05;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21
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Db 18 SYKCGAGKYAGAAAAGC 2

RESULT 30
LOCUS      AX405010/c          20 bp      DNA      linear      PAT 14-JUN-2002
DEFINITION Sequence 27 from patent WO0222634.
ACCESSION  AX405010
VERSION     AX405010.1 GI:21438225
KEYWORDS   .
SOURCE      synthetic construct
ORGANISM    synthetic construct
REFERENCE   1
AUTHORS     Choo,Y. and Isalan,M.
TITLE        Method for the preparation of selectively randomised nucleic acid
JOURNAL      Patent: WO 0222634-A 27 21-MAR-2002;
SANGAMO     Sangamo Biosciences Inc. (US)
FEATURES    Location/Qualifiers
             source
               1..20
               /organism="synthetic construct"
               /mol_type="unassigned DNA"
               /db_xref="taxon:32630"
               /note="Oligonucleotide"

ORIGIN
Query Match          53.6%; Score 11.8; DB 6; Length 20;
Best Local Similarity 58.8%; Pred. No. 6.8e+05;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21
   ::: ||:: |||||
Db 18 SYKCGAGKYAGAAAAGC 2

RESULT 31
LOCUS      CQ854109/c          21 bp      DNA      linear      PAT 23-AUG-2004
DEFINITION Sequence 11 from patent WO2004067564.
ACCESSION  CQ854109
VERSION     CQ854109.1 GI:51510136
KEYWORDS   .
SOURCE      synthetic construct
ORGANISM    synthetic construct
REFERENCE   1
AUTHORS     Choo,Y. and Isalan,M.
TITLE        Method for the preparation of selectively randomised nucleic acid
JOURNAL      Patent: WO 0222634-A 27 21-MAR-2002;
SANGAMO     Sangamo Biosciences Inc. (US)
FEATURES    Location/Qualifiers
             source
               1..20
               /organism="synthetic construct"
               /mol_type="unassigned DNA"
               /db_xref="taxon:32630"
               /note="Oligonucleotide"

ORIGIN
Query Match          53.6%; Score 11.8; DB 6; Length 20;
Best Local Similarity 58.8%; Pred. No. 6.8e+05;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21
   ::: ||:: |||||
Db 18 SYKCGAGKYAGAAAAGC 2

RESULT 32
LOCUS      CQ854109/c          21 bp      DNA      linear      PAT 23-AUG-2004
DEFINITION Sequence 11 from patent WO2004067564.
ACCESSION  CQ854109
VERSION     CQ854109.1 GI:51510136
KEYWORDS   .
SOURCE      synthetic construct
ORGANISM    synthetic construct
REFERENCE   1
AUTHORS     Choo,Y. and Isalan,M.
TITLE        Method for the preparation of selectively randomised nucleic acid
JOURNAL      Patent: WO 0222634-A 27 21-MAR-2002;
SANGAMO     Sangamo Biosciences Inc. (US)
FEATURES    Location/Qualifiers
             source
               1..20
               /organism="synthetic construct"
               /mol_type="unassigned DNA"
               /db_xref="taxon:32630"
               /note="Oligonucleotide"

ORIGIN
Query Match          53.6%; Score 11.8; DB 6; Length 20;
Best Local Similarity 86.7%; Pred. No. 6.8e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 TGTTCACAGGTAGAAA 18
   ||| ||||| |||||
Db 19 TGGTACAGGCAGAAA 5

RESULT 27
LOCUS      ARI62418          20 bp      DNA      linear      PAT 17-OCT-2001
DEFINITION Sequence 98 from patent US 6258600.
ACCESSION  ARI62418
VERSION     ARI62418.1 GI:16229597
KEYWORDS   .
SOURCE      Unknown.
ORGANISM    Unclassified.
REFERENCE   1 (bases 1 to 20)
AUTHORS     Zhang,H. and Cowsett,L.M.
TITLE        Antisense modulation of caspase 8 expression
JOURNAL      Patent: US 6258600-A 98 10-JUL-2001;
FEATURES    Location/Qualifiers
             source
               1..20
               /organism="unknown"
               /mol_type="unassigned DNA"

ORIGIN
Query Match          53.6%; Score 11.8; DB 6; Length 20;
Best Local Similarity 86.7%; Pred. No. 6.8e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 8 ACAGGTAGAAAAGCC 22
   | ||||| |||||
Db 4 AGAGGTAGAAAGCC 18

RESULT 28
LOCUS      I42395/c          20 bp      DNA      linear      PAT 07-OCT-1997
DEFINITION Sequence 27 from patent US 5629158.
ACCESSION  I42395
VERSION     I42395.1 GI:2467890
KEYWORDS   .
SOURCE      Unknown.
ORGANISM    Unclassified.
REFERENCE   1 (bases 1 to 20)
AUTHORS     Uhlen,M.
TITLE        Solid phase diagnosis of medical conditions
JOURNAL      Patent: US 5629158-A 27 13-MAY-1997;
FEATURES    Location/Qualifiers
             source
               1..20
               /organism="unknown"
               /mol_type="unassigned DNA"

ORIGIN
Query Match          53.6%; Score 11.8; DB 6; Length 20;
Best Local Similarity 86.7%; Pred. No. 6.8e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 TGTTCACAGGTAGAAA 18
   ||| ||||| |||||
Db 19 TGGTACAGGCAGAAA 5

RESULT 29
LOCUS      AX405006/c          20 bp      DNA      linear      PAT 14-JUN-2002
DEFINITION Sequence 27 from patent WO0222634.
ACCESSION  AX405010
VERSION     AX405010.1 GI:21438225
KEYWORDS   .
SOURCE      synthetic construct
ORGANISM    synthetic construct
REFERENCE   1
AUTHORS     Choo,Y. and Isalan,M.
TITLE        Method for the preparation of selectively randomised nucleic acid
JOURNAL      Patent: WO 0222634-A 27 21-MAR-2002;
SANGAMO     Sangamo Biosciences Inc. (US)
FEATURES    Location/Qualifiers
             source
               1..20
               /organism="synthetic construct"
               /mol_type="unassigned DNA"
               /db_xref="taxon:32630"
               /note="Oligonucleotide"

ORIGIN
Query Match          53.6%; Score 11.8; DB 6; Length 20;
Best Local Similarity 58.8%; Pred. No. 6.8e+05;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21
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Db 18 SYKCGAGKYAGAAAAGC 2

RESULT 30
LOCUS      AX405010/c          20 bp      DNA      linear      PAT 14-JUN-2002
DEFINITION Sequence 27 from patent WO0222634.
ACCESSION  AX405010
VERSION     AX405010.1 GI:21438225
KEYWORDS   .
SOURCE      synthetic construct
ORGANISM    synthetic construct
REFERENCE   1
AUTHORS     Choo,Y. and Isalan,M.
TITLE        Method for the preparation of selectively randomised nucleic acid
JOURNAL      Patent: WO 0222634-A 27 21-MAR-2002;
SANGAMO     Sangamo Biosciences Inc. (US)
FEATURES    Location/Qualifiers
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Query Match          53.6%; Score 11.8; DB 6; Length 20;
Best Local Similarity 58.8%; Pred. No. 6.8e+05;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21
   ::: ||:: |||||
Db 18 SYKCGAGKYAGAAAAGC 2

RESULT 31
LOCUS      CQ854109/c          21 bp      DNA      linear      PAT 23-AUG-2004
DEFINITION Sequence 11 from patent WO2004067564.
ACCESSION  CQ854109
VERSION     CQ854109.1 GI:51510136
KEYWORDS   .
SOURCE      synthetic construct
ORGANISM    synthetic construct
REFERENCE   1
AUTHORS     Choo,Y. and Isalan,M.
TITLE        Method for the preparation of selectively randomised nucleic acid
JOURNAL      Patent: WO 0222634-A 27 21-MAR-2002;
SANGAMO     Sangamo Biosciences Inc. (US)
FEATURES    Location/Qualifiers
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Query Match          53.6%; Score 11.8; DB 6; Length 20;
Best Local Similarity 58.8%; Pred. No. 6.8e+05;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21
   ::: ||:: |||||
Db 18 SYKCGAGKYAGAAAAGC 2

RESULT 32
LOCUS     
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REFERENCE 1
AUTHORS Law,D., Gish,K.C., Murray,R. and Culp,P.
TITLE Compositions against cancer antigen liv-1 and uses thereof
JOURNAL Patent: WO 2004067564-A 11 12-AUG-2004;
PROTEIN DESIGN LABS, INC. (US)
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Best Local Similarity 86.7%; Pred. No. 6.7e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 7 TACAGGTAGAAAAGC 21
||| ||||| |||||
Db 17 TAGCGGTAGAAAAGC 3

RESULT 32
CQ854110 21 bp DNA linear PAT 23-AUG-2004
LOCUS Sequence 12 from Patent WO2004067564.
DEFINITION CQ854110
ACCESSION CQ854110
VERSION CQ854110.1 GI:51510137
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Law,D., Gish,K.C., Murray,R. and Culp,P.
TITLE Compositions against cancer antigen liv-1 and uses thereof
JOURNAL Patent: WO 2004067564-A 12 12-AUG-2004;
PROTEIN DESIGN LABS, INC. (US)
FEATURES
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/db_xref="taxon:32630"
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Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 7 TACAGGTAGAAAAGC 21
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Db 3 TAGCGGTAGAAAAGC 17

RESULT 33
BD089416 22 bp DNA linear PAT 27-AUG-2002
LOCUS A method of arraying genome clone.
DEFINITION BD089416
ACCESSION BD089416
VERSION BD089416.1 GI:22635026
KEYWORDS JP 2001321190-A/1660.
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.
REFERENCE 1 (bases 1 to 22)
AUTHORS Soeda,E.
TITLE A method of arraying genome clone
JOURNAL Patent: JP 2001321190-A 1660 20-NOV-2001;
THE INSTITUTE OF PHYSICAL AND CHEMICAL RESEARCH, YUGENKAISHA
GENOTCHS
OS Artificial Sequence
PN JP 2001321190-A/1660
PD 20-NOV-2001
COMMENT

REFERENCE 35
AUTHORS AB068139
TITLE LOCUS
JOURNAL DEFINITION
Synthetic construct DNA, reverse primer for human STS
22 bp DNA linear SYN 21-MAY-2003

```

---

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PF 12-MAR-2001 JP 2001068285
PI EIICHI SOEDA
PC C12N15/09, C12N15/09, C12M1/00, C12Q1/68, G01N33/53, G01N33/566, PC
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PC C12N15/00
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FT source
FT Location/Qualifiers
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Best Local Similarity 86.7%; Pred. No. 6.7e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 2 CATGTTACAGGTAGA 16
||||| ||||| |||||
Db 8 CATGTTACATGTACA 22

RESULT 34
BD089578 22 bp DNA linear PAT 27-AUG-2002
LOCUS A method of arraying genome clone.
DEFINITION BD089578
ACCESSION BD089578
VERSION BD089578.1 GI:22635188
KEYWORDS JP 2001321190-A/1822.
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.
REFERENCE 1 (bases 1 to 22)
AUTHORS Soeda,E.
TITLE A method of arraying genome clone
JOURNAL Patent: JP 2001321190-A 1822 20-NOV-2001;
THE INSTITUTE OF PHYSICAL AND CHEMICAL RESEARCH, YUGENKAISHA
GENOTCHS
OS Artificial Sequence
PN JP 2001321190-A/1822
PD 20-NOV-2001
PF 12-MAR-2001 JP 2001068285
PI EIICHI SOEDA
PC C12N15/09, C12N15/09, C12M1/00, C12Q1/68, G01N33/53, G01N33/566, PC
C12N15/00,
PC C12N15/00
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Query Match 53.6%; Score 11.8; DB 6; Length 22;
Best Local Similarity 86.7%; Pred. No. 6.7e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 2 CATGTTACAGGTAGA 16
||||| ||||| |||||
Db 8 CATGTTACATGTACA 22

RESULT 35
AB068139 22 bp DNA linear SYN 21-MAY-2003
LOCUS
DEFINITION
Synthetic construct DNA, reverse primer for human STS

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[illegible]

sts-stGDB443043 at lp36.

AB068139  
 VERSION  
 AB068139.1 GI:15128943

synthetic construct  
 synthetic construct  
 other sequences; artificial sequences.

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 Chen, Y. Z., Hayashi, Y., Wu, J. G., Takaoka, E., Maekawa, K.,  
 Watanabe, N., Inazawa, J., Hosoda, F., Arai, Y., Mizushima, H.,  
 Morohashi, A., Ohira, M., Nakagawara, A., Liu, S., Hoshi, M., Horii, A.  
 and Soeda, E.  
 A BAC-based STS-content map spanning a 35-Mb region of human  
 chromosome 1p35-p36  
 Genomics 74 (1), 55-70 (2001)

JOURNAL  
 MEDLINE  
 PUBMED  
 21269192  
 11374902  
 2 (bases 1 to 22)  
 Horii, A.  
 Direct Submission  
 Submitted (04-AUG-2001) Akira Horii, Tohoku University School of  
 Medicine, Molecular Pathology; 2-1 Seiryomachi, Aoba-ku, Sendai,  
 Miyagi 980-8575, Japan (E-mail: horii@mail.cc.tohoku.ac.jp,  
 Tel: 81-22-717-8042, Fax: 81-22-717-8047)  
 Location/Qualifiers

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 RPCI-11"

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 8 CATGTTACATGTACA 22

RESULT 37  
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 DEFINITION Sequence 4544 from patent US 6537751.  
 ACCESSION AR292809  
 VERSION AR292809.1 GI:31680093  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unclassified.  
 REFERENCE 1 (bases 1 to 19)  
 AUTHORS Cohen, D., Chumakov, I. and Blumenfeld, M.  
 TITLE Biallelic markers for use in constructing a high density  
 disequilibrium map of the human genome  
 JOURNAL Patent: US 6537751-A 4544 25-MAR-2003;  
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 2 TGTTCAGGTAGAAAAGC 19

RESULT 38  
 LOCUS CQ762779 20 bp DNA  
 DEFINITION Sequence 1397 from Patent WO2004003201.  
 ACCESSION CQ762779  
 VERSION CQ762779.1 GI:44906015  
 KEYWORDS  
 SOURCE synthetic construct  
 ORGANISM synthetic construct  
 other sequences; artificial sequences.

REFERENCE 1  
 AUTHORS Kane, C.D.  
 TITLE Antisense modulation of lrlh1 expression  
 JOURNAL Patent: WO 2004003201-A 1397 08-JAN-2004;  
 Pharmacia Corporation (US)  
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sts-stGDB443043 at lp36.

AB068145  
 VERSION  
 AB068145.1 GI:15128949

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 Chen, Y. Z., Hayashi, Y., Wu, J. G., Takaoka, E., Maekawa, K.,  
 Watanabe, N., Inazawa, J., Hosoda, F., Arai, Y., Mizushima, H.,  
 Morohashi, A., Ohira, M., Nakagawara, A., Liu, S., Hoshi, M., Horii, A.  
 and Soeda, E.  
 A BAC-based STS-content map spanning a 35-Mb region of human  
 chromosome 1p35-p36  
 Genomics 74 (1), 55-70 (2001)

JOURNAL  
 MEDLINE  
 PUBMED  
 21269192  
 11374902  
 2 (bases 1 to 22)  
 Horii, A.  
 Direct Submission  
 Submitted (04-AUG-2001) Akira Horii, Tohoku University School of  
 Medicine, Molecular Pathology; 2-1 Seiryomachi, Aoba-ku, Sendai,  
 Miyagi 980-8575, Japan (E-mail: horii@mail.cc.tohoku.ac.jp,  
 Tel: 81-22-717-8042, Fax: 81-22-717-8047)  
 Location/Qualifiers

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 B215H8, B239P22, B239P22, B88A11, Human BAC library  
 RPCI-11"

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 DEFINITION Synthetic construct DNA, reverse primer for human STS sts-stGDB443043  
 at lp36.

ACCESSION  
 VERSION  
 AB068145.1 GI:15128949

synthetic construct  
 synthetic construct  
 other sequences; artificial sequences.

1  
 Chen, Y. Z., Hayashi, Y., Wu, J. G., Takaoka, E., Maekawa, K.,  
 Watanabe, N., Inazawa, J., Hosoda, F., Arai, Y., Mizushima, H.,  
 Morohashi, A., Ohira, M., Nakagawara, A., Liu, S., Hoshi, M., Horii, A.  
 and Soeda, E.  
 A BAC-based STS-content map spanning a 35-Mb region of human  
 chromosome 1p35-p36  
 Genomics 74 (1), 55-70 (2001)

JOURNAL  
 MEDLINE  
 PUBMED  
 21269192  
 11374902  
 2 (bases 1 to 22)  
 Horii, A.  
 Direct Submission  
 Submitted (04-AUG-2001) Akira Horii, Tohoku University School of  
 Medicine, Molecular Pathology; 2-1 Seiryomachi, Aoba-ku, Sendai,  
 Miyagi 980-8575, Japan (E-mail: horii@mail.cc.tohoku.ac.jp,  
 Tel: 81-22-717-8042, Fax: 81-22-717-8047)  
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 8 CATGTTACATGTACA 22

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 at lp36.

ACCESSION  
 VERSION  
 AB068145.1 GI:15128949

synthetic construct  
 synthetic construct  
 other sequences; artificial sequences.

1  
 Chen, Y. Z., Hayashi, Y., Wu, J. G., Takaoka, E., Maekawa, K.,  
 Watanabe, N., Inazawa, J., Hosoda, F., Arai, Y., Mizushima, H.,  
 Morohashi, A., Ohira, M., Nakagawara, A., Liu, S., Hoshi, M., Horii, A.  
 and Soeda, E.  
 A BAC-based STS-content map spanning a 35-Mb region of human  
 chromosome 1p35-p36  
 Genomics 74 (1), 55-70 (2001)

JOURNAL  
 MEDLINE  
 PUBMED  
 21269192  
 11374902  
 2 (bases 1 to 22)  
 Horii, A.  
 Direct Submission  
 Submitted (04-AUG-2001) Akira Horii, Tohoku University School of  
 Medicine, Molecular Pathology; 2-1 Seiryomachi, Aoba-ku, Sendai,  
 Miyagi 980-8575, Japan (E-mail: horii@mail.cc.tohoku.ac.jp,  
 Tel: 81-22-717-8042, Fax: 81-22-717-8047)  
 Location/Qualifiers

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 B215H8, B239P22, B239P22, B88A11, Human BAC library  
 RPCI-11"

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 8 CATGTTACATGTACA 22

RESULT 36  
 LOCUS AB068145 22 bp DNA  
 DEFINITION Synthetic construct DNA, reverse primer for human STS sts-stGDB443043  
 at lp36.

ACCESSION  
 VERSION  
 AB068145.1 GI:15128949

synthetic construct  
 synthetic construct  
 other sequences; artificial sequences.

1  
 Chen, Y. Z., Hayashi,

ORIGIN

Query Match 52.7%; Score 11.6; DB 6; Length 20;  
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 Qy 3 ATGTTACAGGTAGAAAAG 20  
 Db 19 ATGCCACAGGTATGAAAG 2

RESULT 39  
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LOCUS CQ763112 20 bp DNA linear PAT 03-MAR-2004  
 DEFINITION Sequence 1730 from Patent WO2004003201.  
 ACCESSION CQ763112  
 VERSION CQ763112.1 GI:44906348  
 KEYWORDS  
 ORGANISM synthetic construct  
 SOURCE other sequences; artificial sequences.

REFERENCE 1

AUTHORS Kane, C.D.  
 TITLE Antisense modulation of ltrh1 expression  
 JOURNAL Patent: WO 2004003201-A 1730 08-JAN-2004;  
 Pharmacia Corporation (US)  
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\* ORIGIN

Query Match 52.7%; Score 11.6; DB 6; Length 20;  
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 Qy 3 ATGTTACAGGTAGAAAAG 20  
 Db 18 ATGCCACAGGTATGAAAG 1

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LOCUS BD012454 20 bp DNA linear PAT 02-AUG-2002  
 DEFINITION A novel gene encoding TSPI-like protein.  
 ACCESSION BD012454  
 VERSION BD012454.1 GI:22092643  
 KEYWORDS WO 0109321-A/38.  
 SOURCE synthetic construct  
 ORGANISM synthetic construct  
 other sequences; artificial sequences.  
 REFERENCE 1 (bases 1 to 20)  
 AUTHORS Ota, T., Isogai, T., Nishikawa, T., Hayashi, K., Saito, K., Yamamoto, J.,  
 Ishii, S., Sugiyama, T., Wakamatsu, A., Nagai, K., Otsuki, T.,  
 Murakami, K., Yano, K., Kanakaki, K. and Inoue, Y.  
 TITLE A novel gene encoding TSPI-like protein  
 JOURNAL Patent: WO 0109321-A 38 08-FEB-2001;  
 HELIX RESEARCH INSTITUTE, TOSHIO OTA, TAKAO ISOGAI, TETSUO NISHIKAWA,  
 KOJI HAYASHI, KAORU SAITO, JUNICHI YAMAMOTO, SHIZUKO ISHII, OMOYASU  
 SUGIYAMA, AI WAKAMATSU, KEIICHI NAGAI, TETSUJI OTSUKI, KOJI MURAKAMI,  
 AZUHIRO YANO, KOJI KANZAKI, YOSHIHISA INOUE

\* COMMENT

OS Artificial Sequence  
 PN WO 0109321-A/38  
 PD 08-FEB-2001  
 PF 28-JUL-2000 WO 2000JP005068  
 PR 29-JUL-1999 JP 99P 248036 27-AUG-1999 JP 99P 300253 PR  
 11-JAN-2000 JP 00P 118776, 02-MAY-2000 JP 00P 183767 PR  
 18-OCT-1999 US 60/159590, 17-FEB-2000 US 60/183322 PI TOSHIO  
 OTA, TAKAO ISOGAI, TETSUO NISHIKAWA, KOJI HAYASHI, PI KAORU SAITO,  
 PI JUNICHI YAMAMOTO, SHIZUKO ISHII, TOMOYASU SUGIYAMA, AI WAKAMATSU,  
 PI KEIICHI NAGAI, TETSUJI OTSUKI, KOJI MURAKAMI, KAZUHIRO YANO, PI

KOJI KANZAKI,  
 PI YOSHIHISA INOUE  
 PC C12N15/12, C07K14/47, C07K16/18, C12P21/08  
 CC Description of Artificial Sequence: an artificially synthesized  
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 /mol\_type="genomic DNA"  
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 Best Local Similarity 77.8%; Pred. No. 8.6e+05;  
 Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
 Qy 1 GCATGTTACAGGTAGAAA 18  
 Db 1 GCATGTTACATCTGGAGA 18

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 Job time : 1571 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 04:53:41 ; Search time 239 Seconds  
(without alignments)  
544.913 Million cell updates/sec

Title: US-09-743-825-7

Perfect score: 22

Sequence: 1 gcattgtacaggtagaagaagcc 22

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Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 2486036

Minimum DB seq length: 0

Maximum DB seq length: 22

Post-processing: Minimum Match 0%

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7: geneseqn2002bs.\*

8: geneseqn2003as.\*

9: geneseqn2003bs.\*

10: geneseqn2003cs.\*

11: geneseqn2003ds.\*

12: geneseqn2004as.\*

13: geneseqn2004bs.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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5	13.2	60.0	21	9	AA250444 Lawsonia
6	13.2	60.0	21	10	AA250444 Lawsonia
7	13.2	60.0	21	10	AA250444 L. intrac
8	13.2	60.0	21	13	AA250444 Lawsonia
9	13.2	60.0	21	13	AA250444 Lawsonia
10	13.2	60.0	21	13	AA250444 Polynucle
11	13.2	60.0	21	13	AA250444 Polynucle
12	13.2	60.0	21	13	AA250444 Polynucle
13	13.2	60.0	21	13	AA250444 Polynucle
14	13.2	60.0	21	13	AA250444 Polynucle
15	13.2	60.0	21	13	AA250444 Polynucle
16	13.2	60.0	21	13	AA250444 Polynucle
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30	12.2	55.5	20	10	ADG65754
31	12.2	55.5	20	10	ADG65754
32	12.2	55.5	20	10	ADG65754
33	12.2	55.5	20	10	ADG65754
34	12.2	55.5	20	10	ADG65754
35	12.2	55.5	20	10	ADG65754
36	12.2	55.5	20	10	ADG65754
37	12.2	55.5	20	10	ADG65754
38	12.2	55.5	20	10	ADG65754
39	12.2	55.5	20	10	ADG65754
40	12.2	55.5	20	10	ADG65754
41	12.2	55.5	20	10	ADG65754
42	11.8	53.6	17	2	AAZ71716
43	11.8	53.6	19	3	AAZ71716
44	11.8	53.6	20	2	AAZ71716
45	11.8	53.6	20	5	AAZ71716
46	11.8	53.6	20	6	AAZ71716
47	11.8	53.6	20	6	AAZ71716
48	11.8	53.6	20	10	AAZ71716
49	11.8	53.6	20	10	AAZ71716
50	11.8	53.6	20	10	AAZ71716
51	11.8	53.6	20	10	AAZ71716
52	11.8	53.6	20	10	AAZ71716
53	11.8	53.6	20	10	AAZ71716
54	11.8	53.6	20	10	AAZ71716
55	11.8	53.6	20	10	AAZ71716
56	11.8	53.6	20	10	AAZ71716
57	11.8	53.6	20	10	AAZ71716
58	11.8	53.6	20	10	AAZ71716
59	11.8	53.6	20	10	AAZ71716
60	11.6	52.7	18	6	ABT05087
61	11.6	52.7	18	6	ABT05087
62	11.6	52.7	18	6	ABT05087
63	11.6	52.7	18	6	ABT05087
64	11.6	52.7	18	6	ABT05087
65	11.6	52.7	18	6	ABT05087
66	11.6	52.7	18	6	ABT05087
67	11.6	52.7	18	6	ABT05087
68	11.6	52.7	18	6	ABT05087
69	11.6	52.7	18	6	ABT05087
70	11.6	52.7	18	6	ABT05087
71	11.6	52.7	18	6	ABT05087
72	11.6	52.7	18	6	ABT05087
73	11.6	52.7	18	6	ABT05087
74	11.6	52.7	18	6	ABT05087
75	11.6	52.7	18	6	ABT05087
76	11.6	52.7	18	6	ABT05087
77	11.4	51.8	13	5	ABC71407
78	11.4	51.8	13	5	ABC71407
79	11.4	51.8	13	5	ABC71407
80	11.4	51.8	13	5	ABC71407
81	11.4	51.8	13	5	ABC71407
82	11.4	51.8	13	5	ABC71407
83	11.4	51.8	13	5	ABC71407
84	11.4	51.8	13	5	ABC71407
85	11.4	51.8	13	5	ABC71407
86	11.4	51.8	13	5	ABC71407
87	11.4	51.8	13	5	ABC71407
88	11.4	51.8	13	5	ABC71407
89	11.4	51.8	13	5	ABC71407
90	11.4	51.8	13	5	ABC71407
91	11.4	51.8	13	5	ABC71407
92	11.4	51.8	13	5	ABC71407
93	11.4	51.8	13	5	ABC71407

21	12.2	55.5	18	2	AAQ61732
22	12.2	55.5	18	2	AAQ61732
23	12.2	55.5	18	2	AAQ61732
24	12.2	55.5	18	3	AAQ61732
25	12.2	55.5	20	6	ABN89231
26	12.2	55.5	20	6	ADG90494
27	12.2	55.5	20	10	ADG65754
28	12.2	55.5	20	10	ADG65754
29	12.2	55.5	20	10	ADG65754
30	12.2	55.5	20	10	ADG65754
31	12.2	55.5	20	10	ADG65754
32	12.2	55.5	20	10	ADG65754
33	12.2	55.5	20	10	ADG65754
34	12.2	55.5	20	10	ADG65754
35	12.2	55.5	20	10	ADG65754
36	12.2	55.5	20	10	ADG65754
37	12.2	55.5	20	10	ADG65754
38	12.2	55.5	20	10	ADG65754
39	12.2	55.5	20	10	ADG65754
40	12.2	55.5	20	10	ADG65754
41	12.2	55.5	20	10	ADG65754
42	11.8	53.6	17	2	AAZ71716
43	11.8	53.6	19	3	AAZ71716
44	11.8	53.6	20	2	AAZ71716
45	11.8	53.6	20	5	AAZ71716
46	11.8	53.6	20	6	AAZ71716
47	11.8	53.6	20	6	AAZ71716
48	11.8	53.6	20	10	AAZ71716
49	11.8	53.6	20	10	AAZ71716
50	11.8	53.6	20	10	AAZ71716
51	11.8	53.6	20	10	AAZ71716
52	11.8	53.6	20	10	AAZ71716
53	11.8	53.6	20	10	AAZ71716
54	11.8	53.6	20	10	AAZ71716
55	11.8	53.6	20	10	AAZ71716
56	11.8	53.6	20	10	AAZ71716
57	11.8	53.6	20	10	AAZ71716
58	11.8	53.6	20	10	AAZ71716
59	11.8	53.6	20	10	AAZ71716
60	11.6	52.7	18	6	ABT05087
61	11.6	52.7	18	6	ABT05087
62	11.6	52.7	18	6	ABT05087
63	11.6	52.7	18	6	ABT05087
64	11.6	52.7	18	6	ABT05087
65	11.6	52.7	18	6	ABT05087
66	11.6	52.7	18	6	ABT05087
67	11.6	52.7	18	6	ABT05087
68	11.6	52.7	18	6	ABT05087
69	11.6	52.7	18	6	ABT05087
70	11.6	52.7	18	6	ABT05087
71	11.6	52.7	18	6	ABT05087
72	11.6	52.7	18	6	ABT05087
73	11.6	52.7	18	6	ABT05087
74	11.6	52.7	18	6	ABT05087
75	11.6	52.7	18	6	ABT05087
76	11.6	52.7	18	6	ABT05087
77	11.4	51.8	13	5	ABC71407
78	11.4	51.8	13	5	ABC71407
79	11.4	51.8	13	5	ABC71407
80	11.4	51.8	13	5	ABC71407
81	11.4	51.8	13	5	ABC71407
82	11.4	51.8	13	5	ABC71407
83	11.4	51.8	13	5	ABC71407
84	11.4	51.8	13	5	ABC71407
85	11.4	51.8	13	5	ABC71407
86	11.4	51.8	13	5	ABC71407
87	11.4	51.8	13	5	ABC71407
88	11.4	51.8	13	5	ABC71407
89	11.4	51.8	13	5	ABC71407
90	11.4	51.8	13	5	ABC71407
91	11.4	51.8	13	5	ABC71407
92	11.4	51.8	13	5	ABC71407
93	11.4	51.8	13	5	ABC71407

c 94 11.4 51.8 19 12 ADQ62530 Anti-inte  
 Aax58979 PCR prime  
 Aav84314 Human JAG  
 Aax38517 E. coli S  
 Aax94099 PCR prime  
 Aah37845 SNP speci  
 Aad35778 Human hb

## ALIGNMENTS

RESULT 1  
 AAZ50444  
 ID AAZ50444 standard; DNA; 22 BP.  
 XX AC AAZ50444;  
 XX DT 18-MAY-2000 (first entry)  
 XX DE EST R00504-specific primer 1.  
 XX KW PB39; human; prostate cancer; PC; chromosome 11p11.1-11.2; cancer;  
 KW prostate epithelium; splicing mechanism; early diagnosis; progression;  
 KW precancerous cell; metastatic potential; non-neoplastic prostate disease;  
 KW expressed sequence tag; EST; PCR primer; ss.  
 XX OS Homo sapiens.  
 XX FN WO200005376-A1.  
 XX PD 03-FEB-2000.  
 XX PF 23-JUL-1999; 99WO-US016831.  
 XX PR 24-JUL-1998; 98US-0094137P.  
 XX PA (USSH ) US DEPT HEALTH & HUMAN SERVICES.  
 XX PI Chuahui RF, Cole KA, Liotta LA;  
 XX WPI; 2000-182700/16.

Novel gene which is dysregulated in prostate cancer useful for diagnosing cancer.

Claim 5; Page 16; 51pp; English.

The present sequence is the EST AAR00504-specific PCR primer, used for amplification of sequences contained within the EST AAR00504. It is useful to probe the gene overexpressed in prostate cancer epithelium and to analyse the differential expression of the EST. The PB39 gene that is dysregulated in prostate cancer is isolated from human pancreas cDNA library and has homology to the EST AAR00504. PB39 gene is located on chromosome 11p11.1-11.2. Abnormally high concentrations of PB39 are found in prostate tissue derived from prostate cancer (PC) epithelium. PB39 sequence is useful for detection of precancerous or cancer cells in the prostate. PB39 is useful for early diagnosis of the progression of prostate cancer, especially in aggressive prostate carcinoma. It can also distinguish PC from other non-neoplastic prostate disease. The diagnostic method is selective and specific for various types of PC and also facilitates identifying prostate cancer of differing aggressiveness and metastatic potential

Sequence 22 BP; 8 A; 4 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 100.0%; Score 22; DB 3; Length 22;  
 Best Local Similarity 100.0%; Pred. No. 0.51; Indels 0; Gaps 0;  
 Matches 22; Conservative 0; Mismatches 0;

Oy 1 GCATGTTACAGGTAGAAAAGCC 22  
 |||||  
 Db 1 GCATGTTACAGGTAGAAAAGCC 22

RESULT 2  
 AAX96007/c  
 ID AAX96007 standard; DNA; 20 BP.

XX AC AAX96007;  
 XX DT 13-SEP-1999 (first entry)

XX DE PCR primer used to amplify an ORF of Chlamydia pneumoniae.  
 XX KW Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis;  
 KW sinusitis; purulent otitis media; erythema nodosum; pharyngitis; vaccine;  
 KW neutralising epitope; PCR primer; ss.

XX OS Synthetic.  
 XX OS Chlamydothila pneumoniae.  
 XX PN WO9927105-A2.  
 XX PD 03-JUN-1999.

XX PF 20-NOV-1998; 98WO-IB001890.  
 XX PR 21-NOV-1997; 97ER-00014673.  
 XX PR 04-NOV-1998; 98US-0107078P.

XX PA (GEST ) GENSET.

XX PI Griffais R;  
 XX DR WPI; 1999-357842/30.

XX PT Genome sequence of Chlamydia pneumoniae.  
 XX PS Page 1792; Disclosure; 1912pp; English.

XX CC AAX91991-X97517 represent PCR primers used to amplify open reading frames and other nucleic acid sequences from the genome of Chlamydia pneumoniae (see AAX91990). C. pneumoniae causes respiratory disease such as pneumonia and bronchitis and is thought to be a contributing factor in heart disease, sarcoidosis, sinusitis, purulent otitis media, erythema nodosum or pharyngitis. The polypeptides encoded by the open reading frames of the C. pneumoniae genome (see AAX34584-AAX35879) can be used in immunogenic compositions as vaccines. Vectors containing C. pneumoniae nucleotides sequences can also be used as immunogenic compositions, especially where the vector directs the expression of a neutralising epitope of C. pneumoniae

XX SQ Sequence 20 BP; 4 A; 5 C; 4 G; 7 T; 0 U; 0 Other;

Query Match 69.1%; Score 15.2; DB 2; Length 20;  
 Best Local Similarity 85.0%; Pred. No. 1.2e+03;  
 Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Oy 1 GCATGTTACAGGTAGAAAAG 20  
 |||||  
 Db 20 GCCTGTTCCAGATAGAAAAG 1

## RESULT 3

AAI98006  
 ID AAI98006 standard; DNA; 21 BP.

XX AC AAI98006;  
 XX DT 20-NOV-2001 (first entry)

XX DE Lawsonia intracellularis protein related oligonucleotide SEQ ID NO: 50.  
 XX KW HtrA; PonA; HypC; YefW; ABC1; Omp100; Lawsonia intracellularis infection;  
 KW vaccine; PCR primer; probe; ss.

XX Lawsonia intracellularis.  
 OS JP2001169787-A.  
 PN 26-JUN-2001.  
 PD 20-OCT-2000; 2000JP-00320736.  
 PF 22-OCT-1999; 99US-0160922P.  
 PR (PF12) PFIZER PROD INC.  
 PA WPI; 2001-592540/67.  
 DR Lawsonia intracellularis polynucleotide and encoded protein, used to  
 XX prevent Lawsonia intracellularis infection.  
 PT Example 2; Page 55; 67pp; Japanese.  
 PS The present invention provides isolated polynucleotides encoding HtrA,  
 CC PonA, HypC, LysS, YcfW, ABC1 or Omp100 protein of Lawsonia  
 CC intracellularis. The sequences can be used in vaccines for the prevention  
 CC of Lawsonia intracellularis infection. The present sequence is an  
 CC oligonucleotide described in the exemplification of the invention  
 XX SQ Sequence 21 BP; 10 A; 3 C; 5 G; 3 T; 0 U; 0 Other;  
 Query Match 60.0%; Score 13.2; DB 4; Length 21;  
 Best Local Similarity 83.3%; Pred. NO. 1.2e+04;  
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 4 TGGTACAGGTAGAAAGC 21  
 DB 2 TGGTACAGCAAGAAAGC 19  
 RESULT 4  
 ID ACA92364 standard; DNA; 21 BP.  
 AC ACA92364;  
 XX 16-JUL-2003 (first entry)  
 DT Lawsonia intracellularis DNA PCR primer #41.  
 DE Primer; ss; antibacterial; HtrA; PonA; HypC; LysS; YcfW; ABC1; Omp100;  
 XX Lawsonia intracellularis infection; Orf1; pig; PCR.  
 KW Lawsonia intracellularis.  
 OS US2003021802-A1.  
 XX 30-JAN-2003.  
 XX 01-AUG-2002; 2002US-00210296.  
 PF 22-OCT-1999; 99US-0160922P.  
 PR 05-NOV-1999; 99US-0163858P.  
 PR 12-OCT-2000; 2000US-00689065.  
 XX (ROSE/) ROSEY E L.  
 PA Rosey EL;  
 XX WPI; 2003-416977/39.  
 DR New isolated Lawsonia intracellularis polynucleotide and polypeptide,  
 XX useful for the prevention and diagnosis of Lawsonia infections in  
 PT susceptible animals, such as pigs.  
 PS Example 2; Page 46; 64pp; English.

XX The invention relates to an isolated polynucleotide molecule comprising a  
 CC sequence encoding Lawsonia intracellularis HtrA, PonA, HypC, LysS, YcfW,  
 CC ABC1 or Omp100 protein. The invention also relates to a genetic construct  
 CC comprising a polynucleotide molecule that can be used to alter a Lawsonia  
 CC gene, comprising a polynucleotide molecule comprising a sequence that is  
 CC otherwise the same as a nucleotide sequence of a htrA, ponA, hypC, lysS,  
 CC ycfW, abc1 or omp100 gene, or its homologue, a substantial portion, or  
 CC mutations capable of altering the above mentioned genes or a  
 CC polynucleotide molecule comprising a sequence that naturally flanks in  
 CC situ the ORF of the htrA, ponA, hypC, lysS, ycfW, abc1 or omp100 gene or  
 CC its homologue. The invention also relates to a fusion protein of a  
 CC polypeptide of the invention fused to another polypeptide or an analogue  
 CC or derivative. The invention further relates to a substantially pure  
 CC polypeptide comprising an epitope of HtrA, PonA, HypC, LysS, YcfW, ABC1  
 CC or Omp100 protein that is specifically reactive with anti-Lawsonia  
 CC antibodies. The methods and compositions of the present invention are  
 CC useful for the prevention and diagnosis of L. intracellularis infections  
 CC in susceptible animals, such as pigs. Sequences ACA92324-ACA92415  
 CC represent PCR primers used to amplify DNA encoding L. intracellularis  
 CC proteins of the invention.  
 XX SQ Sequence 21 BP; 10 A; 3 C; 5 G; 3 T; 0 U; 0 Other;  
 Query Match 60.0%; Score 13.2; DB 9; Length 21;  
 Best Local Similarity 83.3%; Pred. NO. 1.2e+04;  
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 4 TGGTACAGGTAGAAAGC 21  
 DB 2 TGGTACAGCAAGAAAGC 19  
 RESULT 5  
 ID ADG33930 standard; DNA; 21 BP.  
 XX AC ADG33930;  
 XX 26-FEB-2004 (first entry)  
 DT L. intracellularis sequencing primer #26.  
 DE Lawsonia intracellularis; HtrA; PonA; HypC; LysS; YcfW; ABC1; Omp100;  
 XX pig; ss; sequencing; primer.  
 KW Lawsonia intracellularis.  
 OS US2003202983-A1.  
 XX 30-OCT-2003.  
 XX 29-MAY-2003; 2003US-00449462.  
 PF 22-OCT-1999; 99US-0160922P.  
 PR 05-NOV-1999; 99US-0163858P.  
 PR 12-OCT-2000; 2000US-00689065.  
 XX (ROSE/) ROSEY E L.  
 PA Rosey EL;  
 XX WPI; 2003-900619/82.  
 DR New isolated Lawsonia intracellularis polynucleotide and polypeptide,  
 XX useful for the prevention and diagnosis of Lawsonia infections in  
 PT susceptible animals, such as pigs.  
 PS Example 2; SEQ ID NO 50; 66pp; English.  
 XX The invention relates to a new isolated polynucleotide molecule which  
 CC encodes Lawsonia intracellularis HtrA, PonA, HypC, LysS, YcfW, ABC1 or  
 CC Omp100 protein. The methods and compositions of the present invention are

CC useful for the prevention and diagnosis of L. intracellularis infections  
 CC in susceptible animals, such as pigs. The present sequence is used in the  
 CC exemplification of the present invention.

XX  
 SQ Sequence 21 BP; 10 A; 3 C; 5 G; 3 T; 0 U; 0 Other;  
 Query Match 60.0%; Score 13.2; DB 10; Length 21;  
 Best Local Similarity 83.3%; Pred. No. 1.2e+04;  
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGGTACAGGTAGAAAAGC 21  
 ||||| |||||  
 Db 2 TGGTACAGCAAGAAAAGC 19

RESULT 6  
 ADJ66835  
 ID ADJ66835 standard; DNA; 21 BP.

XX  
 AC ADJ66835;

XX  
 DT 06-MAY-2004 (first entry)

XX  
 DE Lawsonia intracellularis PCR primer SeqID50.

XX  
 KW antibacterial; vaccine; HtrA; PonA; HypC; Lyss; YcfW; ABC1; Omp100;  
 KW diagnostic agent; infection; pig; porcine proliferative enteropathy; PCR;  
 KW primer; ss.

XX  
 OS Lawsonia intracellularis.

XX  
 PN US6605696-B1.

XX  
 PD 12-AUG-2003.

XX  
 PF 12-OCT-2000; 2000US-00689065.

XX  
 PR 22-OCT-1999; 99US-0160922P.

XX  
 PR 05-NOV-1999; 99US-0163868P.

XX  
 PA (PFIZ ) PFIZER INC.

XX  
 PA (PFIZ ) PFIZER PROD INC.

XX  
 PI Rosey EL;

XX  
 DR WPI; 2003-895290/82.

XX  
 PT New Lawsonia intracellularis polypeptides, useful as vaccines, as  
 PT diagnostic agents, or in preventing infections in susceptible animals  
 PT such as pigs, e.g. porcine proliferative enteropathy.

XX  
 PS Example 2; SEQ ID NO 50; 62pp; English.

XX  
 CC This invention relates to a novel isolated polypeptide derived from  
 CC Lawsonia intracellularis. The invention may be useful for the development  
 CC of compounds with an antibacterial activity or a vaccine. Specifically  
 CC claimed are L intracellularis proteins, such as HtrA, PonA, HypC, Lyss,  
 CC YcfW, ABC1 and Omp100 proteins. The invention may be useful for the  
 CC development of vaccines, diagnostic agents, or in preventing L  
 CC intracellularis infections in susceptible animals such as pigs, for  
 CC example porcine proliferative enteropathy. The present sequence is that  
 CC of a PCR primer which was used for amplification and/or sequencing of a  
 CC region of L intracellularis DNA during the exemplification of the  
 CC invention.

XX  
 SQ Sequence 21 BP; 10 A; 3 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 60.0%; Score 13.2; DB 10; Length 21;  
 Best Local Similarity 83.3%; Pred. No. 1.2e+04;  
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGGTACAGGTAGAAAAGC 21  
 ||||| |||||

Db 2 TGGTACAGCAAGAAAAGC 19

RESULT 7

ADR72987

ID ADR72987 standard; DNA; 21 BP.

XX  
 AC ADR72987;

XX  
 DT 04-NOV-2004 (first entry)

XX  
 DE Lawsonia intracellularis DNA sequence #41.

XX  
 KW HtrA; PonA; HypC; Lyss; YcfW; ABC1; Omp100; infection; primer; probe; ss.

XX  
 OS Lawsonia intracellularis.

XX  
 PN JP2004229667-A.

XX  
 PD 19-AUG-2004.

XX  
 PF 26-MAR-2004; 2004JP-00092095.

XX  
 PR 22-OCT-1999; 99US-0160922P.

XX  
 PR 20-OCT-2000; 2000JP-00320736.

XX  
 PA (PFIZ ) PFIZER PROD INC.

XX  
 WI; 2004-597336/58.

XX  
 DR Novel isolated polynucleotide comprising Lawsonia intracellularis

XX  
 PT nucleotide sequence that encodes HtrA, PonA, HypC, Lyss, YcfW, ABC1 or

XX  
 PT Omp100 protein or its essential portion, useful as diagnostic agent.

XX  
 PS Example 2; SEQ ID NO 50; 55pp; Japanese.

XX  
 CC The invention comprises the amino acid and coding sequences of the

XX  
 CC Lawsonia intracellularis proteins: HtrA, PonA, HypC, Lyss, YcfW, ABC1,  
 CC and Omp100. The DNA and protein sequences of the invention are useful for  
 CC preventing Lawsonia intracellularis infection of animals (e.g. pig). The

XX  
 CC present DNA sequence was used in the exemplification of the invention.

XX  
 CC NOTE: The present sequence is not shown in the specification but was

XX  
 CC obtained from the Japanese Patent Office.

XX  
 SQ Sequence 21 BP; 10 A; 3 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 60.0%; Score 13.2; DB 13; Length 21;  
 Best Local Similarity 83.3%; Pred. No. 1.2e+04;  
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGGTACAGGTAGAAAAGC 21  
 ||||| |||||

Db 2 TGGTACAGCAAGAAAAGC 19

RESULT 8

AAF85459/c

ID AAF85459 standard; DNA; 22 BP.

XX  
 AC AAF85459;

XX  
 DT 23-JUL-2001 (first entry)

XX  
 DE Polynucleotide in unique region in exon 1 of rabbit motilin receptor.

XX  
 KW Motilin receptor; gastrointestinal disease; gastric motility disorder;  
 KW gastroparesis; irritable bowel syndrome; diarrhoea; ss.

XX  
 OS Oryctolagus cuniculus.

XX  
 PN WO200132710-A1.

XX  
 PD 10-MAY-2001.





```

SQ Sequence 19 BP; 2 A; 6 C; 4 G; 7 T; 0 U; 0 Other;
  Query Match      58.2%; Score 12.8; DB 6; Length 19;
  Best Local Similarity 87.5%; Pred. No. 1.9e+04;
  Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      3 ATGTTACAGGTAGAAA 18
      ||||| ||||| |||||
DB      19 ATGTCACAGGCAGAAA 4

RESULT 11
AAT33010/c
ID AAT33010 standard; DNA; 20 BP.
XX
AC AAT33010;
XX
DT 23-OCT-1996 (first entry)
XX
DE Mouse SRY-related gene primer 2.
XX
KW Mouse; SRY; primer; PCR; polymerase chain reaction; amplification; probe;
KW HMG box; human; bovine; sex; animal; birth; ss.
XX
OS Synthetic.
XX
PN JP08154685-A.
XX
PD 18-JUN-1996.
XX
PF 30-NOV-1994; 94JP-00319525.
XX
PR 30-NOV-1994; 94JP-00319525.
XX
PA (KACH-) KACHIKU JUSEIRAN ISHOKU GIKUTSU KENKYUKU.
XX
DR WPI; 1996-336575/34.
XX
KW Bovine and mouse SRY-related DNA - useful for detecting e.g. the sex of
PT unborn animals.
XX
PS Example 2; Page 6; 21pp; Japanese.
XX
CC The primers AAT33009-10 were used to amplify a fragment of the gene
CC encoding a mouse SRY-related protein (AAT33007). This primer corresp. to
CC bases 7156-7175 of the mouse gene. The amplified fragment was used to
CC screen a mouse genomic library. The screen isolated 4 EcoRI fragments of
CC 2.3, 2.8, 3.5 and 1.5 kb covering the gene. Sequence analysis revealed a
CC 240 bp HMG box sequence between bases 7154-7393. Similarity with the
CC human SRY HMG box sequence resulted in primers being generated to amplify
CC the human SRY HMG box sequence for use as a probe to isolate the bovine
CC SRY-related gene (AAT33008). The mouse and bovine genes are useful for
CC determining the sex of an animal prior to birth
XX
SQ Sequence 20 BP; 4 A; 6 C; 4 G; 6 T; 0 U; 0 Other;
  Query Match      58.2%; Score 12.8; DB 2; Length 20;
  Best Local Similarity 87.5%; Pred. No. 1.9e+04;
  Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      7 TACAGGTAGAAAAGCC 22
      ||||| ||||| |||||
DB      20 TGCAGGTGGAAGGCC 5

RESULT 12
ABK87666/c
ID ABK87666 standard; DNA; 20 BP.
XX
AC ABK87666;
XX
DT 24-SEP-2002 (first entry)
XX
DE Transforming growth factor-beta 3 antisense oligonucleotide, SEQ ID 75.
KW Cytostatic; antirheumatic; antiarthritic; gynecological;
KW antiarteriosclerotic; Transforming Growth Factor beta-3; TGF beta-3;
KW hyperproliferative disorder; cancers; atherosclerosis;
KW rheumatoid arthritis; preeclampsia; fibrosis; phosphorothioate; ss.
XX
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..20

```

Synthetic oligo #21, for selective randomisation of zinc finger protein.

Selectively randomised synthetic oligonucleotide; NNN randomisation; resin-splitting; zinc finger; ss.

Synthetic.

W0200222634-A1.

21-MAR-2002.

12-SEP-2001; 2001WO-GB004084.

12-SEP-2000; 2000GB-00022330.

(SANG-) SANGAMO BIOSCIENCES INC.

Choo Y, Isalan M;

WPI; 2002-507792/54.

Making selectively randomized synthetic oligonucleotide by utilizing phosphoramidite dinucleotide and mononucleotide synthesis strategy, where a deprotecting step is performed after each coupling step.

Example 3; Fig 1B; 42pp; English.

The present invention relates to a new method of making selectively randomised synthetic oligonucleotides. The method involves deprotecting starting material at 3' position, which is coupled to support in nucleic acid synthesiser, coupling dinucleotide phosphoramidite to 3' position, deprotecting the new 3' position of extended oligonucleotide, coupling mononucleotide phosphoramidite to the 3' position and repeating coupling steps until desired length oligonucleotide is obtained. The method of the invention is useful for making selectively randomised synthetic oligonucleotides. Unlike prior art techniques, the method provides randomised oligonucleotides without the problems of NNN randomisation, without having to resort to complicated resin-splitting procedures or the use of low coupling efficiency trinucleotide phosphoramidites. The present nucleic acid sequence represents one of a collection (ABK87646-ABK87669 and ABK87671-ABK87676) of synthetic oligonucleotides that were used in the invention for selective randomisation of zinc finger protein

Sequence 20 BP; 1 A; 5 C; 2 G; 6 T; 0 U; 6 Other;

Query Match 58.2%; Score 12.8; DB 6; Length 20;

Best Local Similarity 61.1%; Pred. No. 1.9e+04;

Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 4 TGTTCACAGGTAGAAAAGC 21  
|:::|:::|:::|:::|

DB 19 TSYKCGAGKYAGAAAAGC 2

RESULT 13

ADA66516/c

ID ADA66516 standard; DNA; 20 BP.

XX

AC ADA66516;

XX

DT 20-NOV-2003 (first entry)

XX

DE Transforming growth factor-beta 3 antisense oligonucleotide, SEQ ID 75.

XX

KW Cytostatic; antirheumatic; antiarthritic; gynecological;

KW antiarteriosclerotic; Transforming Growth Factor beta-3; TGF beta-3;

KW hyperproliferative disorder; cancers; atherosclerosis;

KW rheumatoid arthritis; preeclampsia; fibrosis; phosphorothioate; ss.

XX

OS Synthetic.

XX

FH Key Location/Qualifiers

FT modified\_base 1..20

```

FT      /*tag= a
FT      /mod_base= OTHER
FT      /note= "This oligonucleotide has a phosphorothioate
FT      backbone and 2'-methoxyethyl (2'-MOE) wings at the 5',
FT      and 3' ends, which are 5 nucleotides in length. Also all
FT      cytidine residues are 5-methylcytidines"
XX      WO2003008544-A2.
XX
XX      30-JAN-2003.
XX
XX      12-JUL-2002; 2002WO-US022423.
XX
XX      14-JUL-2001; 2001US-00906158.
XX
XX      (ISIS-) ISIS PHARM INC.
XX
XX      Monia BP, Freier SM;
XX
XX      WPI; 2003-229569/22.
XX
XX      Novel antisense compound which is targeted to nucleic acid encoding
XX      transforming growth factor beta-3, and inhibits expression of TGF-beta 3,
XX      useful for treating a condition associated with TGF-beta 3, e.g. cancer.
XX
XX      Claim 3; Page 88; 154pp; English.
XX
XX      The present invention relates to antisense oligonucleotides (ADA66459-
XX      ADA66609), which inhibit Transforming Growth Factor (TGF) beta-3
XX      expression. The oligonucleotides are useful for inhibiting the expression
XX      of TGF-beta3 in cells or tissues, and for treating an animal having a
XX      disease condition associated with TGF-beta3, e.g. a hyperproliferative
XX      disorder such as cancers of lung, liver, colon, oesophagus, pancreas,
XX      breast, skin or haematopoietic, atherosclerosis, rheumatoid arthritis,
XX      preclampsia and fibrosis.
XX
XX      Sequence 20 BP; 2 A; 5 C; 4 G; 9 T; 0 U; 0 Other;
XX
XX      Query Match      58.2%; Score 12.8; DB 10; Length 20;
XX      Best Local Similarity 87.5%; Pred. No. 1.9e+04;
XX      Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX      QY      7 TACAGGTAGAAAGCC 22
XX      |||||
XX      DB      18 TACAGGGAGAAATCC 3
XX
XX      RESULT 14
XX      ID      ADG89282/c
XX      AC      ADG89282;
XX
XX      DT      11-MAR-2004 (first entry)
XX
XX      DE      Cancer detection method related oligonucleotide #230.
XX
XX      ss; cancer; gene expression;
XX      KW      estrogen receptor-positive invasive breast cancer.
XX
XX      OS      Homo sapiens.
XX
XX      PN      WO2003078662-A1.
XX
XX      PD      25-SEP-2003.
XX
XX      PF      12-MAR-2003; 2003WO-US007713.
XX
XX      PR      13-MAR-2002; 2002US-0364890P.
XX      PR      18-SEP-2002; 2002US-0412049P.
XX
XX      PA      (GENO-) GENOMIC HEALTH INC.
XX
XX      Baker JB, Cronin MT, Shak S, Baselga J;
XX      WPI; 2004-420643/39.
XX
PI      Baker JB, Cronin MT, Kiefer MC, Shak S, Walker MG;
XX      WPI; 2003-767536/72.
XX
XX      Predicting clinical outcome for a patient diagnosed with cancer comprises
XX      determining the expression level of one or more genes, and compared to
XX      the amount found in a reference cancer tissue set.
XX
XX      Disclosure; SEQ ID NO 230; 198pp; English.
XX
XX      The invention relates to a method of predicting clinical outcome for a
XX      patient diagnosed with cancer by determining the expression level of one
XX      or more genes, or their expression products, selected from p53BP2,
XX      cathepsin B, cathepsin L, Ki67/MiB1, and thymidine kinase in a cancer
XX      tissue obtained from the patient, normalized against control gene(s), and
XX      compared to the amount found in a reference cancer tissue set. The
XX      specification also discloses an array comprising polynucleotides
XX      hybridizing to the following genes: FOXM1, FRAM6, Bcl2, STK15, CEGP1, Ki-
XX      67, GSTM1, CA9, PR, BCC3, NME1, SURV, CCNB1, XIAP, Chk2, CDC25B, IGF1R,
XX      RPS6KB1, Sro, Chk1, ID1, EstR1, p27, CCNB1, XIAP, Chk2, CDC25B, IGF1R,
XX      AKO55699, PI3KC2A, TGPB3, BAG1, CYP3A4, EPCAM, VEGFC, pS2, hENT1, WISP1,
XX      HNF3A, NFKBp65, BRCA2, EGFR, TK1, VDR, Contig51037, pENT1, EPHX1, IFIA,
XX      CDH1, HIF1t, IGFBP3, CTSSB, Her2 and DIABLO, immobilized on a solid
XX      surface. The methods are useful for predicting clinical outcome for a
XX      patient diagnosed with cancer, classifying cancer, and predicting the
XX      likelihood of long-term survival of a breast cancer patient, or a patient
XX      diagnosed with invasive breast cancer or with estrogen receptor (ER)-
XX      positive invasive breast cancer. This sequence corresponds to an
XX      oligonucleotide used in the method of the invention.
XX
XX      Sequence 21 BP; 5 A; 6 C; 5 G; 5 T; 0 U; 0 Other;
XX
XX      Query Match      58.2%; Score 12.8; DB 10; Length 21;
XX      Best Local Similarity 87.5%; Pred. No. 1.9e+04;
XX      Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX      QY      7 TACAGGTAGAAAGCC 22
XX      |||||
XX      DB      21 TTCTGGTAGAAAGCC 6
XX
XX      RESULT 15
XX      ID      ADP27751/c
XX      AC      ADP27751 standard; DNA; 21 BP.
XX
XX      AC      ADP27751;
XX
XX      DT      26-AUG-2004 (first entry)
XX
XX      DE      PCR primer to amplify a human cancer prognostic marker DNA SeqID 188.
XX
XX      KW      human; primer; PCR; prognostic marker; EGFR;
XX      KW      epidermal growth factor receptor; cancer; gene expression profiling;
XX      KW      microarray; head and neck cancer; colon cancer; metastatic spread;
XX      KW      neoplastic disease; ss.
XX
XX      OS      Homo sapiens.
XX
XX      PN      WO2004046386-A1.
XX
XX      PD      03-JUN-2004.
XX
XX      PF      14-NOV-2003; 2003WO-US036777.
XX
XX      PR      15-NOV-2002; 2002US-0427090P.
XX
XX      PA      (GENO-) GENOMIC HEALTH INC.
XX      (VALL-) VALL HEBRON UNIV HOSPITAL.
XX
XX      Baker JB, Cronin MT, Shak S, Baselga J;
XX      WPI; 2004-420643/39.
XX

```

PT Prognosing a patient with EGFR-expressing colon cancer comprises  
 PT subjecting a sample comprising EGFR-expressing cancer cells to  
 PT quantitative analysis of the expression level of the RNA transcript of at  
 PT least one gene e.g., CD44v3.

PS Claim 54; SEQ ID NO 188; 113bp; English.

XX This invention relates to a novel method concerning prognostic markers  
 CC associated with EGFR (epidermal growth factor receptor) positive cancer.  
 CC Specifically, it refers to a gene expression profiling method that can  
 CC provide a prediction as to whether a patient is likely to respond well to  
 CC treatment with an EGFR inhibitor. The present invention describes the  
 CC quantitative analysis of the expression level of the RNA transcript of at  
 CC least one gene selected from the group of CD44v3, CD44v6, DP5, GRI1,  
 CC KRL17, LAMC2 or their products thereof. It further provides a cDNA  
 CC microarray containing named genes that represent prognostic transcripts  
 CC which are useful for determining whether a patient diagnosed with an EGFR  
 CC -expressing head or neck cancer or colon cancer exhibits elevated or  
 CC decreased expression levels of these genes compared to normal. As such,  
 CC these methods are also useful for prognosing or predicting the likelihood  
 CC of cancer-attributable death or progression, including recurrence and  
 CC metastatic spread of a neoplastic disease, as well as drug resistance.  
 CC This oligonucleotide sequence is a PCR primer used to amplify a human PCR  
 CC amplicon DNA sequence used as a prognostic cancer marker, given in an  
 CC exemplification of the invention.

XX Sequence 21 BP; 5 A; 6 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 58.2%; Score 12.8; DB 12; Length 21;  
 Best Local Similarity 87.5%; Pred. No. 1.9e+04;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TACAGGTAGAAAAGCC 22  
 Db 21 TTCTGGTAGAAAAGCC 6

RESULT 16  
 ADR00153/c  
 ID ADR00153 standard; DNA; 21 BP.

XX ADR00153;  
 DT 21-OCT-2004 (first entry)  
 XX COX2 probe, SEQ ID 191.  
 DE Breast cancer; human; ss; probe; COX2.

XX Homo sapiens.  
 OS WO2004065583-A2.  
 FN 05-AUG-2004.  
 PD 14-JAN-2004; 2004WO-US000985.  
 PF 15-JAN-2003; 2003US-0440861P.  
 PR (GENO-) GENOMIC HEALTH INC.  
 PA (UYRU-) UNIV RUSH MEDICAL CENT.

XX Cobleigh MA, Shak S, Baker JB, Cronin MT;  
 PI WPI; 2004-593480/57.  
 DR Predicting likelihood of long-term survival of a breast cancer patient  
 PT without the recurrence of breast cancer by determining the expression  
 PT level of prognostic RNA transcripts or their expression products in a  
 PT breast cancer tissue sample.

PS Claim 33; SEQ ID NO 191; 125pp; English.

CC The present invention relates to a method for predicting the likelihood  
 CC of long-term survival of a breast cancer patient without the recurrence  
 CC of breast cancer. The method comprises determining the expression level  
 CC of one or more prognostic RNA transcripts or their expression products in  
 CC a breast cancer tissue sample obtained from the patient. The prognostic  
 CC RNA transcript is the transcript of one or more genes, e.g. TP53BP2,  
 CC GRB7, PR, CD68, Bcl2, KRT14, IRS1, CTSL, ESR1, Chk1, IGFBP2, BAG1,  
 CC CEGP1, STK15, GSTM1, FHT, RIZ1, AIB1, SURV, BCC3, IGF1R, p27, GATA3,  
 CC ZNF217, EGFR, CD9, MYBL2, HIF1alpha, pS2, ErbB3, TOP2B, MDM2, RAD51C,  
 CC KRT19, TS, Her2, KLU10, beta-Catenin, gamma-Catenin, MCM2, PI3KC2A, IGF1,  
 CC TBP, CCNB1, FBXO5, or DR5, where expression of one or more of GRB7, CD68,  
 CC CTSL, Chk1, AIB1, CCNB1, MCM2, FBXO5, Her2, STK15, SURV, EGFR, MYBL2,  
 CC HIF1alpha, or TS indicates a decreased likelihood of long-term survival  
 CC without breast cancer recurrence, and where the expression of one or more  
 CC of TP53BP2, PR, Bcl2, KRT14, ESR1, IGFBP2, BAG1, CEGP1, KLU10, beta-  
 CC Catenin, gamma-Catenin, DR5, PI3KCA2, RAD51C, GSTM1, FHT, RIZ1, BCC3,  
 CC TBP, p27, IRS1, IGF1R, GATA3, ZNF217, CD9, pS2, ErbB3, TOP2B, MDM2, IGF1,  
 CC or KRT19 indicates an increased likelihood of long-term survival without  
 CC breast cancer recurrence. The present sequence is a probe used to amplify  
 CC one such prognostic gene of the invention.

XX Sequence 21 BP; 5 A; 6 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 58.2%; Score 12.8; DB 13; Length 21;  
 Best Local Similarity 87.5%; Pred. No. 1.9e+04;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TACAGGTAGAAAAGCC 22  
 Db 21 TTCTGGTAGAAAAGCC 6

RESULT 17  
 ADR013916/c  
 ID ADR013916 standard; DNA; 20 BP.

XX ADR013916;  
 XX 07-OCT-2004 (first entry)  
 DT DMD region PCR primer, SEQ ID 311.  
 DE Human; SCAIP; dystrophin; Duchenne Muscular Dystrophy; DMD;  
 KW Becker Muscular Dystrophy; BMD; PCR; primer; ss;  
 KW Single Condition Amplification/ Internal Primer.

XX Homo sapiens.  
 OS WO2004058985-A2.

XX 15-JUL-2004.  
 XX 17-DEC-2003; 2003WO-US040278.  
 XX 17-DEC-2002; 2002US-0433774P.  
 XX (UTAH ) UNIV UTAH RES FOUND.

XX Flanigan KM, Weiss RB, Dunn DM, Von Niederhausen A;  
 PI WPI; 2004-525893/50.

XX Characterizing a nucleic acid region, useful for detecting genetic  
 PT mutations in any large multi-exon gene e.g., those indicating  
 PT dystrophinopathy, comprises using a Single Condition  
 PT Amplification/Internal Primer (SCAIP) sequencing method.

XX Example 1; Page 34; 174pp; English.

XX The present invention relates to a Single Condition Amplification/  
 CC Internal Primer (SCAIP) sequencing method for direct sequence analysis of  
 CC large multi-exon genes from genomic DNA samples and identifying mutations  
 CC in multi-exon genes e.g. the dystrophin gene, CAPN3 gene and DYSF gene.

CC Mutations in the dystrophin gene result in both Duchenne Muscular  
 CC Dystrophy (DMD) and Becker Muscular Dystrophy (BMD). Mutations in the  
 CC CAPN3 gene, encoding calpain (calcium-activated neutral protease) result  
 CC in limb-girdle muscular dystrophy type 2A (LGMD2A) and mutations in the  
 CC DYSF gene, encoding dysferlin, result in limb-girdle muscular dystrophy  
 CC type 2B (LGMD2B). The method comprises bringing into contact in each of  
 CC the reaction chambers an amplicon from a different one of the  
 CC amplification reactions and one or more internal sequencing primers  
 CC corresponding to the amplicon and analysing the sequences of the  
 CC amplicons. The method allows for the rapid, accurate, and economical  
 CC analysis of any large multi-exon gene. The method is useful in detecting  
 CC genetic mutations in any large multi-exon gene. It is also useful for the  
 CC identification and analysis of specific individual genomic mutations  
 CC including deletions, point mutations, or its combinations, gene complexes  
 CC with multiple exons/introns spanning large genomic regions. The present  
 CC sequence is a PCR primer, used in the method of the invention.

SQ Sequence 20 BP; 3 A; 4 C; 6 G; 7 T; 0 U; 0 Other;

Query Match 57.3%; Score 12.6; DB 12; Length 20;  
 Best Local Similarity 78.9%; Pred. No. 2.4e+04;  
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 TGTTACAGGTAGAAAGCC 22  
 | | | | | | | | | |  
 Db 20 TCTTACAGCAGAAAGGCC 2

# RESULT 18

ADD18145  
 ID ADD18145 standard; DNA; 20 BP.

XX AC ADD18145;

DT 15-JAN-2004 (first entry)

DE Human G-protein coupled receptor (GPCR) related PCR primer Seq ID44.

XX G protein coupled receptor; GPCR; signal transduction pathway; G protein;  
 KW Alzheimer's disease; Parkinson's disease; diabetes; dwarfism;  
 KW colour blindness; retinal pigmentosa; asthma; depression; schizophrenia;  
 KW sleeplessness; hypertension; anxiety; stress; renal failure;  
 KW cardiovascular disorder; neural disorder; oncology disorder;  
 KW immune disorder; neuroprotective; gene therapy; PCR; primer; ss.

XX Homo sapiens.

XX WO2003016478-A2.

XX 27-FEB-2003.

XX 15-AUG-2002; 2002WO-US026017.

XX 20-AUG-2001; 2001US-0313658P.

XX 12-SEP-2001; 2001US-0318675P.

XX 30-OCT-2001; 2001US-0340703P.

XX 26-NOV-2001; 2001US-0333417P.

XX 06-DEC-2001; 2001US-0338367P.

XX (BRIM ) BRISTOL-MYERS SQUIBB CO.

PI Feder JN, Ramanathan CS, Gopal S, Mintier GA;

XX WPI; 2003-278558/27.

XX New nucleic acid, useful for manufacturing a medicament for preventing,  
 PT treating or ameliorating a medical condition e.g., neural disorder.

XX Example 1; SEQ ID NO 44; 251pp; English.

XX This invention relates to novel G protein coupled receptors (GPCRs) and  
 CC their encoding nucleotide sequences. Many medically significant

CC biological processes are mediated by proteins participating in signal  
 CC transduction pathways involving G proteins. GPCRs are one of the largest  
 CC receptor superfamilies known. These receptors are biologically important  
 CC and malfunction of these receptors results in diseases such as  
 CC Alzheimer's, Parkinson's, diabetes, dwarfism, colour blindness, retinal  
 CC pigmentosa and asthma. They are also involved in depression, renal  
 CC schizophrenia, sleeplessness, hypertension, anxiety, stress, renal  
 CC failure and other cardiovascular, neural, oncology and immune disorders.  
 CC A modulator of the GPCRs of the invention may have neuroprotective  
 CC activity whilst the sequences of the invention may be useful for gene  
 CC therapy. The invention may also be useful for manufacturing a medicament  
 CC for preventing, treating or ameliorating a medical condition. The present  
 CC sequence is that of a PCR primer which was used for amplification of a  
 CC region of a gene encoding a human GPCR during the exemplification of the  
 CC invention.

SQ Sequence 20 BP; 9 A; 3 C; 7 G; 1 T; 0 U; 0 Other;

Query Match 56.4%; Score 12.4; DB 10; Length 20;  
 Best Local Similarity 92.9%; Pred. No. 3e+04;  
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 CAGGTAGAAAAGCC 22  
 | | | | | | | | | |  
 Db 2 CAGGAAGAAAAGCC 15

# RESULT 19

AD141032  
 ID AD141032 standard; DNA; 20 BP.

XX AC AD141032;

DT 22-APR-2004 (first entry)

DE Human HGPBEM742 gene specific antisense primer.

XX Human; ss; primer; GPCR; G protein-coupled receptor;  
 KW reproductive disorder; testicular disorder; vas deferens disorder;  
 KW spermatogenesis; infertility; XX male; epididymitis; cryptorchidism;  
 KW sperm transport disorder; testicular cancer; testicular germ cell tumour;  
 KW male hormone disorder; premature puberty; Kallman syndrome;  
 KW Cushing's syndrome; immune disorder; leukaemia; arthritis; asthma; AIDS;  
 KW rheumatoid arthritis; inflammatory bowel disease; sepsis;  
 KW T-cell mediated cytotoxicity; graft-versus-host disease;  
 KW autoimmunity disorder; systemic lupus erythematosus;  
 KW drug induced haemolytic anaemia; Sjogren's disease;  
 KW T-cell maturation disorder; B-cell maturation disorder;  
 KW vascular disorder; stroke; ischaemia; myocardial infarction;  
 KW atherosclerosis; gastrointestinal disorder; ulcer; pulmonary disorder;  
 KW brain disorder; endocrine disorder; cancer; gene therapy; PCR.

XX Homo sapiens.

XX US2004018976-A1.

XX 29-JAN-2004.

XX 13-MAY-2003; 2003US-00436715.

XX 14-MAY-2002; 2002US-0380336P.

XX (FEDE/) FEDER J N.

XX (MINT/) MINTIER G.

XX (RAWA/) RAMANATHAN C S.

PI Feder JN, Mintier G, Ramanathan CS;

XX WPI; 2004-122081/12.

XX New human G-protein coupled receptor polypeptide and polynucleotide,  
 PT useful for diagnosing, preventing, treating or ameliorating a medical  
 PT condition, e.g. reproductive disorder, immunodeficiency disease or

testicular cancer.

Example 4; SEQ ID NO 92; 290pp; English.

The invention relates to an isolated human G protein-coupled receptor polypeptide and its encoding polynucleotide, including the full length polypeptide minus the start methionine (and the region of the polynucleotide encoding this protein region). The proteins are designated HGPRBMV30-1, HGPRBMV30-2, HGPRBMV30-3, HGPRBMV41-1, HGPRBMV41-2, HGPRBMV41-3, HGPRBMV42, HGPRBMV42-1, HGPRBMV43 and HGPRBMV44. Also included are expression vectors, host cells, antibodies, preventing (treating or ameliorating) a medical condition comprising administering to a mammalian subject the polypeptide or its modulator and diagnosing a pathological condition or a susceptibility to a pathological condition in a subject (comprising determining the presence or absence of a mutation in the polynucleotide, or the presence or amount of expression of the polypeptide in a biological sample and diagnosing a pathological condition or a susceptibility to a pathological condition based on the presence or absence of the mutation, or the presence or amount of expression of the polypeptide). The human G-protein coupled receptor polypeptide or polynucleotide can be used for diagnosing a pathological condition or a susceptibility to a pathological condition in a subject, and for preventing, treating or ameliorating a medical condition, such as a disorder related to aberrant G-protein coupled receptor activity, a disorder related to aberrant signal transduction, a reproductive disorder; a male reproductive disorder, a testicular disorder, a vas deferens disorder, spermatogenesis, infertility, Klinefelter's syndrome, XX male, epididymitis, genital warts, germinal cell aplasia, cryptorchidism, varicocele, immotile cilia syndrome, viral orchitis, sperm transport disorders, testicular cancer, choriocarcinoma, non-seminoma, seminoma, testicular germ cell tumours, male hormone disorders, premature puberty, incomplete puberty, Kallman syndrome, Cushing's syndrome, an immune disorder, a proliferative immune disorder, leukaemia, arthritis, asthma, immunodeficiency diseases such as AIDS, rheumatoid arthritis, granulomatous disease, inflammatory bowel disease, sepsis, acne, neutropenia, neutrophilia, psoriasis, hypersensitivities, such as T-cell mediated cytotoxicity, immune reactions to transplanted organs and tissues, such as host-versus-graft and graft-versus-host diseases, or autoimmune disorders, such as autoimmune infertility, demyelination, systemic lupus erythematosus, drug induced haemolytic anaemia, Sjogren's disease, scleroderma, T-cell maturation disorders, B-cell maturation disorders, vascular disorders, stroke, ischaemia, myocardial infarction, atherosclerosis, embolisms, thrombosis, gastrointestinal disorders, irritable bowel syndrome, ulcers, pulmonary disorders, brain disorders, endocrine disorders, or ovarian, stomach, colon or kidney cancer or its related proliferative condition (many other diseases and disorders are listed in the specification). The antibodies may be used to purify, detect and target the G-protein coupled receptor polypeptides. The polynucleotides are also useful in gene therapy. The present sequence is a gene specific PCR primer for a nucleic acid encoding a novel GPCR of the invention.

Sequence 20 BP; 9 A; 3 C; 7 G; 1 T; 0 U; 0 Other;

Query Match 56.4%; Score 12.4; DB 12; Length 20;  
Best Local Similarity 92.9%; Pred. No. 3e+04; Indels 0; Gaps 0;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 CAGGTAGAAAGGCC 22  
Db 2 CAGGAAGAAAGGCC 15  
|||||

RESULT 20  
ABT16558/c  
ID ABT16558 standard; DNA; 21 BP.

XX AC ABT16558;  
XX  
XX  
DT 03-APR-2003 (first entry)  
DE Ethylene insensitivity related PCR primer SEQ ID No 32.  
XX

Mutant; transformed plant; ethylene-response DNA-binding factor; edf1; edf2; edf3; edf4; fruit; transgenic plant; floral industry; fruit processing industry; floral senescence; flower longevity; decreased floral initiation; post-harvest; transportation; PCR; primer; ss.

Unidentified.

WO200289555-A2.

14-NOV-2002.

08-MAY-2002; 2002WO-US014592.

08-MAY-2001; 2001US-0289364P.

08-MAY-2001; 2001US-0289835P.

(SALK ) SALK INST BIOLOGICAL STUDIES.

Stepanova AN, Ecker JR;  
WPI; 2003-120491/11.

Novel mutant or transformed plant comprising mutated forms of edf1, edf2, edf3 and edf4 genes, and having decreased ethylene sensitivity, such that its fruit ripens more slowly than wild-type version of the plant.

Disclosure; Page 35; 85pp; English.

The invention relates to a mutant or transformed plant comprising mutated forms of ethylene-response DNA-binding factors (edf1, edf2, edf3 and edf4 genes such that the plant exhibits a decreased response to ethylene, and comprises fruit which ripens more slowly than a wild-type version of the plant. The transgenic plants having reduced sensitivity to ethylene are useful for floral industry and fruit processing industries. Since ethylene is involved in floral senescence, the modified plants have longer flower longevity. The modified plants e.g. lettuce, spinach, other leafy vegetables provide higher yields due to decreased floral initiation, since the transformed plants do not bolt or flower easily. The plants provide fruits which ripens more slowly than the wild-type version of the plant, and thus are advantageous in post-harvest and transportation conditions. This polynucleotide sequence represents a PCR primer relating to the ethylene sensitivity modulation process of the invention

Sequence 21 BP; 6 A; 4 C; 4 G; 7 T; 0 U; 0 Other;

Query Match 56.4%; Score 12.4; DB 10; Length 21;  
Best Local Similarity 92.9%; Pred. No. 3e+04; Indels 0; Gaps 0;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGTA 14  
Db 18 GCATGTTACAGGTA 5  
|||||

RESULT 21  
AAQ61732  
ID AAQ61732 standard; cDNA; 18 BP.

XX AC AAQ61732;  
XX  
XX  
DT 25-MAR-2003 (revised)  
DT 21-OCT-1994 (first entry)  
XX  
DE HEV strain BUR-121 primer R133.  
XX  
XX Hepatitis E virus; HEV; strain SAR-55; open reading frame; ORF; PCR; antibody; detection; diagnosis; primates; stool suspension; amplify; polymerase chain reaction; primer; burma; strain BUR-121; ss.  
XX OS Synthetic.  
XX



CC proteins, especially ORF-2 protein. The recombinant HEV proteins can be  
 CC used as diagnostic agents and as vaccines for use against HEV infection.  
 CC The detection of antibodies specific for HEV can be used for the  
 CC diagnosis of infection and diseases caused by HEV, and for monitoring the  
 CC progression of such disease. Such methods are also useful for monitoring  
 CC the efficacy of therapeutic agents during the course of treatment of HEV  
 CC infection and disease in a mammal. The antibodies can be used for  
 CC detection or for passive immunisation of mammals  
 XX  
 SQ Sequence 18 BP; 8 A; 5 C; 3 G; 2 T; 0 U; 0 Other;  
 Query Match 55.5%; Score 12.2; DB 2; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 3.7e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 Qy 5 GTTACAGGTAGAAAGC 21  
 Db 2 GTTACAGCCAGAAACC 18  
 RESULT 24  
 ID AAZ70423 standard; DNA; 18 BP.  
 XX  
 AC AAZ70423;  
 XX  
 DT 10-SEP-2001 (first entry)  
 DE Human biallelic marker upstream amplification primer SEQ ID NO:4779.  
 XX  
 KW Human genome; biallelic marker; high density disequilibrium map;  
 KW genomic map; haplotype; phenotype; polymorphic base; genotyping;  
 KW haplotyping; hybridisation; identification; characterisation;  
 KW amplification; single nucleotide polymorphism; SNP; PCR primer;  
 KW diagnosis; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO954500-A2.  
 XX  
 PD 28-OCT-1999.  
 XX  
 PF 21-APR-1999; 99WO-IB000822.  
 XX  
 PR 21-APR-1999; 98US-0082614P.  
 PR 23-NOV-1998; 98US-0109732P.  
 XX  
 PA (GEST ) GENSET.  
 XX  
 PI Cohen D, Blumenfeld M, Chumakov I;  
 XX  
 DR WPI; 2000-013267/01.  
 XX  
 PT Novel biallelic markers used to construct a high density disequilibrium  
 PT map of the human genome.  
 XX  
 PS Claim 8; Page 1250; 2745pp; English.  
 XX  
 CC AAZ65654 to AAZ69578 represent human biallelic markers from the present  
 CC invention, which contain a polymorphic base at position 24 of their  
 CC nucleotide sequences AAZ69579 to AAZ77440 represent amplification  
 CC primers for the biallelic markers. The biallelic markers of the invention  
 CC have a variety of uses: they can be used for high density mapping of the  
 CC human genome, and in complex association studies and haplotyping studies  
 CC which are useful in determining the genetic basis for disease states.  
 CC Compositions and methods of the invention can also be useful for the  
 CC identification of the targets for the development of pharmaceutical  
 CC agents and diagnostic methods, as well as the characterisation of the  
 CC differential efficacious responses to and side effects from  
 CC pharmaceutical agents acting on a disease as well as other treatment.  
 CC N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and  
 CC 3367, are not actually given a sequence in the Sequence Listing from the  
 CC present invention

XX  
 SQ Sequence 18 BP; 6 A; 0 C; 9 G; 3 T; 0 U; 0 Other;  
 Query Match 55.5%; Score 12.2; DB 3; Length 18;  
 Best Local Similarity 82.4%; Pred. No. 3.7e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 Qy 4 TGTACAGGTAGAAAG 20  
 Db 1 TGTGAGAGGTAGAGAAG 17  
 RESULT 25  
 ABN89231/C  
 ID ABN89231 standard; DNA; 20 BP.  
 XX  
 AC ABN89231;  
 XX  
 DT 29-AUG-2002 (first entry)  
 DE Human Talin antisense phosphorothioate oligonucleotide SEQ ID NO:44.  
 XX  
 DE Human; Talin; antimicrobial; antiinflammatory; cytostatic; inhibitor;  
 KW antisense gene therapy; infection; inflammation; Talin inhibitor; tumour;  
 KW antisense oligonucleotide; phosphorothioate; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "phosphorothioate backbone"  
 FT modified\_base 1..5  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 XX  
 XX US6372492-B1.  
 XX  
 PD 16-APR-2002.  
 XX  
 PF 30-OCT-2000; 2000US-00702251.  
 XX  
 PR 30-OCT-2000; 2000US-00702251.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Bennett CF, Cowsett LM;  
 XX  
 DR WPI; 2002-470102/50.  
 XX  
 PT New antisense compound useful for inhibiting expression of Talin and for  
 PT preventing or delaying infection, inflammation or tumor formation.  
 XX  
 PS Example 15; Col 41; 46pp; English.  
 XX  
 CC The present invention describes an antisense compound (I), 16 to 30 bases  
 CC in length targeted to specific base regions of a nucleic acid encoding  
 CC human Talin. Also described: (a) an antisense compound up to 30 bases in  
 CC length which inhibits the expression of human Talin; (b) a composition  
 CC (ii) comprising (i) or (a); and (c) inhibiting the expression of human  
 CC Talin in human cells or tissues comprising contacting the cells or  
 CC tissues in vitro with (i) or (a). (i) has antimicrobial, antiinflammatory  
 CC and cytostatic activities, and can be used in antisense gene therapy and  
 CC as a Talin expression inhibitor. (i) can be used to inhibit the  
 CC expression of human Talin in human cells or tissues; to prevent or delay  
 CC infection, inflammation or tumour formation; and in diagnostics,  
 CC therapeutics, prophylaxis, and in research reagents and kits. The present



CC sequence represents a human Talin antisense chimeric phosphorothioate  
 CC oligonucleotide, having 2'-methoxyethyl (2'-MOE) wings of 5 nucleotides  
 CC at the 5' and 3' ends and a 10 nucleotide deoxy gap in the middle, which  
 CC is used in an example from the present invention

XX SQ Sequence 20 BP; 3 A; 8 C; 4 G; 5 T; 0 U; 0 Other;  
 Query Match 55.5%; Score 12.2; DB 6; Length 20;  
 Best Local Similarity 82.4%; Pred. No. 3.8e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 4 TGTTACAGGTAGAAAAG 20  
 Db 19 TGTTCAGGCGACAAAG 3

RESULT 26  
 ADG90494/c  
 ID ADG90494 standard; DNA; 20 BP.  
 XX AC ADG90494;  
 XX DT 11-MAR-2004 (first entry)  
 XX DE Human talin phosphorothioate antisense oligonucleotide, SEQ ID NO:44.  
 XX KW Human; talin; cellular adhesion; muscle strength; cardiac function;  
 KW cardiomyocyte; platelet; prostate; androgen downregulation;  
 KW prostate cancer; talin-related disorder;  
 KW cellular adhesion-related disorder; expression inhibition;  
 KW antisense therapy; phosphorothioate; antisense oligonucleotide; ss.  
 XX OS Homo sapiens.

XX FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod base  
 FT /note= "This oligonucleotide has a phosphorothioate  
 FT backbone and 2'-methoxyethyl (2'-MOE) wings at the 5'  
 FT and 3' ends, which are 5 nucleotides in length. Also all  
 FT cytosine nucleotides are 5-methylcytosines"

XX PN WO200268446-A1.  
 XX PD 06-SEP-2002.  
 XX PF 30-OCT-2001; 2001WO-US048435.  
 XX PR 22-FEB-2001; 2001US-00791942.  
 XX PA (ISIS-) ISIS PHARM INC.  
 XX PA (BOH ) BOEHRINGER INGELHEIM PHARM INC.  
 XX PI Bennett CF, Rothlein R, Kishimoto TK, Cowsett LM;  
 XX WPI; 2002-691651/74.  
 XX DR  
 XX PT New antisense oligonucleotides targeted to nucleic acid molecules  
 PT encoding human Talin, useful for inhibiting the expression of human Talin  
 PT and for treating a human having a disease or condition associated with  
 PT Talin.

XX PS Example 15; SEQ ID NO 44; 114pp; English.  
 XX CC Sequences ADG90460-ADG90539 represent phosphorothioate targeted to the  
 CC human talin gene, which inhibit its expression. The antisense were  
 CC designed to target different regions of human talin RNA, and were  
 CC analysed for their effect on talin expression by quantitative real-time  
 CC PCR. Talin is a cytoplasmic protein which links cytoskeletal proteins  
 CC such as actin, myosin and vinculin to integrins, thereby linking the  
 CC extracellular matrix to other cells. It is thought to be involved in the  
 CC regulation of cellular adhesion and cell morphology. Talin is highly

CC expressed in platelets, and may play a role in platelet adhesion as its  
 CC subcellular distribution differs between resting non-adhesive platelets  
 CC and activated adhesive platelets. It could also play a major role in  
 CC determining muscle strength and cardiac function as it has been found to  
 CC participate in the transmission of contractile force to the extracellular  
 CC matrix in cardiomyocytes, and exhibits mechanical loading-dependent  
 CC expression at myotendinous junctions. The expression of talin is  
 CC downregulated by androgens in prostate tissues, a phenomenon known to  
 CC contribute to the development of prostate cancer. The oligonucleotides of  
 CC the invention are useful for diagnosis, prevention and treatment of talin  
 CC -related disorders, such as those related to cellular adhesion. The  
 CC present sequence represents a human c-Ha-ras phosphorothioate antisense  
 CC oligonucleotide used as a positive control in determining optimal  
 XX oligonucleotide concentration for a particular cell line.

SQ Sequence 20 BP; 3 A; 8 C; 4 G; 5 T; 0 U; 0 Other;  
 Query Match 55.5%; Score 12.2; DB 6; Length 20;  
 Best Local Similarity 82.4%; Pred. No. 3.8e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 TGTTACAGGTAGAAAAG 20  
 Db 19 TGTTCAGGCGACAAAG 3

RESULT 27  
 ADG65754  
 ID ADG65754 standard; DNA; 20 BP.  
 XX AC ADG65754;  
 XX DT 18-DEC-2003 (first entry)  
 XX DE Human TGF-beta receptor II targeted antisense oligonucleotide #31.  
 XX KW human; antisense oligonucleotide;  
 KW transforming growth factor beta receptor II; TGF-beta receptor II;  
 KW hyperproliferative disorder; breast cancer; autoimmune disorder;  
 KW rheumatoid arthritis; 2'-O-methoxyethyl gapmer;  
 KW phosphorothioate backbone; ss.

XX OS Homo sapiens.  
 XX PN WO2003000656-A2.  
 XX PD 03-JAN-2003.  
 XX PF 19-JUN-2002; 2002WO-US019665.  
 XX PR 21-JUN-2001; 2001US-00888361.  
 XX PA (ISIS-) ISIS PHARM INC.  
 XX PI Murray SF, Wyatt JR;  
 XX WPI; 2003-175279/17.  
 XX DR  
 XX PT New compound having a sequence targeted to a nucleic acid encoding  
 PT transforming growth factor beta-receptor II, useful for preparing a  
 PT composition for treating hyperproliferative disorder e.g., lung, liver,  
 PT colon or gastric cancer.  
 XX PS Claim 3; SEQ ID NO 50; 141pp; English.

XX CC The invention comprises antisense oligonucleotides that are targeted to  
 CC the nucleic acid encoding transforming growth factor beta (TGF-beta)  
 CC receptor II. The antisense oligonucleotides of the invention are useful  
 CC for treating: hyperproliferative disorders (e.g. breast cancer), or an  
 CC autoimmune disorder (e.g. rheumatoid arthritis). The present DNA sequence  
 CC represents a 2'-O-methoxyethyl gapmer oligonucleotide with a  
 CC phosphorothioate backbone that is targeted to human TGF-beta receptor II.

SQ Sequence 20 BP; 7 A; 4 C; 5 G; 4 T; 0 U; 0 Other;  
 Query Match 55.5%; Score 12.2; DB 10; Length 20;  
 Best Local Similarity 82.4%; Pred. No. 3.8e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 5 GTTACAGGTAGAAAAGC 21  
 ||||| ||||| |||||  
 Db 1 GTCACAGGTGAAAATC 17

RESULT 28  
 ADF90932  
 ID ADF90932 standard; DNA; 20 BP.  
 XX AC  
 XX ADF90932;  
 XX DT 26-FEB-2004 (first entry)  
 XX DE Microorganism detection PCR primer, SEQ ID 15.  
 XX KW Detection; microorganism; PCR; primer; bacterium; fungus; protozoan;  
 XX KW virus; diarrhoea; food poisoning; ss.  
 XX OS Clostridium botulinum.  
 XX PN JP2003164282-A.  
 XX PD 10-JUN-2003.  
 XX PF 29-NOV-2001; 2001JP-00365153.  
 XX PR 29-NOV-2001; 2001JP-00365153.  
 XX PA (RAKA-) RAKAN KK.  
 XX PA (GIFU-) GIFU DAIGAKUCHO.  
 XX DR WPI; 2003-793230/75.  
 XX PT Rapid, sensitive detection of specific or unspecified microbes causing  
 PT diarrhea and food poisoning, using primers which target universal and  
 PT specific genes, and amplifying by PCR under heat cycle conditions  
 PT suitable for many detections.  
 XX PS Claim 1; SEQ ID NO 15; 69pp; Japanese.  
 XX CC The present invention relates to a method for detecting microorganisms  
 CC using primers (ADF90918-ADF91145). The method is used for detecting  
 CC microorganisms (bacteria, fungi, protozoa, viruses) which cause diarrhoea  
 CC symptoms, and pathogenic microbes of food poisoning. The method can be  
 CC used to detect unspecified microbes, or specific pathogens, or for the  
 CC simultaneous detection of many kinds of microorganism.  
 XX SQ Sequence 20 BP; 9 A; 2 C; 5 G; 4 T; 0 U; 0 Other;  
 Query Match 55.5%; Score 12.2; DB 10; Length 20;  
 Best Local Similarity 82.4%; Pred. No. 3.8e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 5 GTTACAGGTAGAAAAGC 21  
 ||||| ||||| |||||  
 Db 2 GTTAGAGCTGAAAAC 18

RESULT 29  
 ABZ86479/c  
 ID ABZ86479 standard; DNA; 20 BP.  
 XX AC ABZ86479;  
 XX DT 17-OCT-2003 (first entry)  
 XX DE Human oligonucleotide sequence.

XX Human; antisense; lung dysfunction; nasal airway dysfunction;  
 KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;  
 KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;  
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;  
 KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;  
 KW lung inflammation; respiratory disease; ds.  
 XX OS Homo sapiens.  
 XX PN WO200285308-A2.  
 XX PD 31-OCT-2002.  
 XX PF 23-APR-2002; 2002WO-US013135.  
 XX PR 24-APR-2001; 2001US-0286137P.  
 XX PA (EPIG-) EPIGENESIS PHARM INC.  
 XX PY Nyce JW, Li Y, Sandrasegura A, Katz E, Pabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 XX DR WPI; 2003-229219/22.  
 XX PT Pharmaceutical composition for treating ailments associated with impaired  
 PT respiration, has oligo(s) antisense to specific gene(s) or its  
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
 PT ubiquinone.  
 XX PS Claim 15; SEQ ID NO 1721; 872pp; English.  
 XX CC The invention relates to a novel pharmaceutical composition, which has a  
 CC first active agent comprising an oligonucleotide antisense to the  
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
 CC junctions of genes encoding a polypeptide associated with lung and/or  
 CC nasal airway dysfunction and a second active agent comprising an  
 CC antiinflammatory steroid and ubiquinone. A composition of the invention  
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,  
 CC immunosuppressive, and cytostatic activity. The composition may have a  
 CC use in antisense gene therapy. The composition is useful for treating or  
 CC preventing a respiratory, lung or malignant disease or condition, also  
 CC for enhancing the prophylactic or therapeutic respiratory effect of an  
 CC antiinflammatory steroid in a subject, for reducing or depleting levels  
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine  
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,  
 CC lung inflammation, lung allergies, or a respiratory disease or condition.  
 CC Note: The sequence data for this patent is not represented in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences  
 XX SQ Sequence 20 BP; 8 A; 4 C; 2 G; 6 T; 0 U; 0 Other;  
 Query Match 55.5%; Score 12.2; DB 10; Length 20;  
 Best Local Similarity 82.4%; Pred. No. 3.8e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 4 TGGTACAGGTAGAAAAG 20  
 ||||| ||||| |||||  
 Db 18 TTTTACATGTAGCAAG 2

RESULT 30  
 ABD22709/c  
 ID ABD22709 standard; DNA; 20 BP.  
 XX AC ABD22709;  
 XX DT 29-JUL-2004 (first entry)  
 XX DE Human myosin X-derived oligonucleotide SEQ ID 1721.

XX	Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;
KW	respiratory tract inflammation; adenosine sensitivity; lung; cancer;
KW	surfactant depletion; anti-allergic; anti-inflammatory; antiasthmatic;
KW	analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;
KW	beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;
KW	respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;
KW	emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
KW	pulmonary transplantation rejection; ss; primer.
XX	
OS	Homo sapiens.
XX	
PN	WO200285309-A2.
XX	
PD	31-OCT-2002.
XX	
PP	23-APR-2002; 2002WO-US013143.
XX	
PP	24-APR-2001; 2001US-0286036P.
XX	
PR	(EPIG-) EPIGENESIS PHARM INC.
XX	
PA	
XX	
PI	Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
PI	Miller S, Tang L, Shahabuddin S;
XX	
XX	WPI; 2003-093058/08.
DR	
XX	
XX	Pharmaceutical composition for treating asthma, has antisense
PT	oligonucleotide containing less percentage of adenosine, targeted to
PT	nucleic acids associated with lung airway or lung dysfunction, and
PT	bronchodilating agent.
XX	
XX	Claim 15; SEQ ID NO 1721; 763pp; English.
XX	
CC	This invention describes a novel composition (a) a first active agent,
CC	comprising oligonucleotides, effective for alleviating
CC	bronchoconstriction, respiratory tract inflammation, allergies and
CC	reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,
CC	surfactant depletion or hyposecretion, when administered to a mammal. The
CC	oligonucleotides are derived from a gene encoding or regulating
CC	expression of a target polypeptide associated with lung airway or lung
CC	dysfunction or cancer and can be anti-sense to the corresponding mRNA.
CC	The invention also describes a kit, that comprises: (a) a delivery
CC	device, in separate containers, (b) the oligonucleotides, (c)
CC	instructions for adding a carrier and for use of the kit. The composition
CC	of the invention has anti-allergic, anti-inflammatory, antiasthmatic,
CC	analgesic, hypotensive, immunosuppressive and cytostatic activity, is a
CC	beta-adrenergic agonist. The composition is useful for preventing or
CC	treating a respiratory, lung or malignant disease. The administered
CC	composition comprises oligo and is administered to reduce the production
CC	or availability, or to increase the degradation of the target mRNA or to
CC	reduce the amount of target polypeptide present in the lungs. The
CC	pulmonary obstruction, and/or bronchoconstriction and/or lung
CC	inflammation, allergies and/or surfactant hypoproduction are associated
CC	with a disease or condition such as pulmonary vasoconstriction,
CC	inflammation, allergies, asthma, impeded respiration, respiratory
CC	distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary
CC	hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary
CC	transplantation rejection, pulmonary infections, bronchitis or cancer.
CC	The reduced adenosine content of the anti-sense oligos corresponding to
CC	thymidines present in the target RNA serves to prevent the breakdown of
CC	the oligonucleotides into products that free adenosine into the system
CC	e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to
CC	prevent any unwanted effects due to it
XX	
XX	
SQ	Sequence 20 BP; 8 A; 4 C; 2 G; 6 T; 0 U; 0 Other;
XX	
Query Match	55.5%; Score 12.2; DB 11; Length 20;
Best Local Similarity	82.4%; Pred. No. 3.8e+04;
Matches	14; Conservative 0; Mismatches 3; Indels 0; Gaps 0
Qy	4 TGTTCACGGTAGAAAG 20

```

RESULT 32
AAC73052
ID AAC73052 standard; DNA; 21 BP.
AC AAC73052;
XX
XX
DT 09-FEB-2001 (first entry)
XX
XX
DE Single nucleotide polymorphism PCR primer #1921.
XX
XX
KW Single nucleotide polymorphism; SNP; human; genetic disease;
KW disease susceptibility; cardiovascular system; endocrine system;
KW neurological system; forensic testing; paternity testing; PCR primer; ss.
XX
XX
OS Homo sapiens.
XX
XX
PN WO200058519-A2.
XX
XX
PD 05-OCT-2000.
XX
XX
PF 30-MAR-2000; 2000WO-US08440.
XX
XX
PR 31-MAR-1999; 99US-0127248P.
XX
XX
PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX
XX
PI Altschuler D, Cargill M, Daley GQ, Ireland JS, Lander ES;
PI Lipshutz RJ, Patil N, Sklar P;
XX
XX
DR WPI; 2000-611722/58.
XX
XX
KW Nucleic acid selected from one of 106 genes comprising single nucleotide
KW polymorphisms, allele-specific oligonucleotides to the genes are useful
KW for phenotypic correlations, forensics, paternity testing, medicine and
KW genetic analysis.
XX
XX
PS Claim 8; Fig 5; 214pp; English.
XX
XX
CC The present invention is concerned with a number of human single
CC nucleotide polymorphisms (SNPs) which the inventors identified in human
CC genes. These SNPs can be used in disease diagnosis and prediction of an
CC individual's susceptibility to disease, in forensic and paternity testing
CC and in genetic mapping. In particular, the SNPs of the invention can be
CC used to diagnose susceptibility to diseases of the cardiovascular,
CC endocrine and neurological systems, such as coronary artery disease,
CC schizophrenia, cancer, autoimmune diseases, Alzheimer's and Parkinson's
CC diseases
XX
XX
SQ Sequence 21 BP; 10 A; 3 C; 5 G; 3 T; 0 U; 0 Other;
Query Match 55.5%; Score 12.2; DB 3; Length 21;
Best Local Similarity 82.4%; Pred. No. 3.8e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 6 TTACAGGTAGAAAAGCC 22
DB 2 TTCTAGGGAGAAAAGCC 18
XX
XX
RESULT 33
ABK41026/c
ID ABK41026 standard; DNA; 21 BP.
AC ABK41026;
XX
XX
DT 21-MAY-2002 (first entry)
XX
XX
DE Human obesity-associated biallelic marker upstream PCR primer #103.
XX
XX
KW Human; obesity associated-biallelic marker; chromosome 10; obesity; ss;
XX
XX
KW drug response; hyperuricaemia; digestive pathology; hypertension; cancer;
KW hepatic function disorder; cardiovascular disease; hyperlipidaemia; PCR;
KW insulin disorder; atheromatous disease; cardiac insufficiency; primer.
XX
XX
OS Homo sapiens.
XX
XX
PN WO200206525-A2.
XX
XX
PD 24-JAN-2002.
XX
XX
PF 28-JUN-2001; 2001WO-IB001477.
XX
XX
PR 18-JUL-2000; 2000US-0219704P.
XX
XX
PA (GEST ) GENSET.
XX
XX
PI Cohen D, Blumenfeld M, Chumakov I, Abderrahim H, Bihain B;
XX
XX
PN WPI; 2002-155043/20.
XX
XX
PT Set of novel map-related biallelic markers, preferably located on obesity
PT disorder-associated chromosomal regions on chromosomes 3, 10 and 19,
PT useful, for e.g. detecting statistical correlations between marker allele
PT and a phenotype.
XX
XX
PS Example 2; Page 248; 311pp; English.
XX
XX
CC The invention relates to a set of novel map-related biallelic markers,
CC preferably located on obesity disorder-associated chromosomal regions on
CC chromosomes 3, 10 and 19. The markers are useful for genotyping or
CC estimating the frequency of an allele in a population, for detecting an
CC association between a genotype or haplotype and a phenotype, e.g. a
CC disease involving drug responses, obesity or disorders related to
CC obesity, such as hyperuricaemia, digestive pathology, hepatic function
CC disorders, cancer, cardiovascular disease, hypertension, hyperlipidaemia,
CC insulin disorders, atheromatous disease and cardiac insufficiency. The
CC markers are useful for detecting a statistical correlation between a
CC biallelic marker allele and a phenotype and/or between a biallelic marker
CC haplotype and a phenotype. This sequence represents a PCR primer used to
CC amplify a human obesity-associated biallelic marker
XX
XX
SQ Sequence 21 BP; 4 A; 3 C; 10 T; 0 U; 0 Other;
Query Match 55.5%; Score 12.2; DB 6; Length 21;
Best Local Similarity 82.4%; Pred. No. 3.8e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 5 GTTACAGGTAGAAAAGC 21
DB 19 GTTTCAGATATAAAAAGC 3
XX
XX
RESULT 34
ADH56236
ID ADH56236 standard; DNA; 22 BP.
XX
XX
AC ADH56236;
XX
XX
DT 25-MAR-2004 (first entry)
XX
XX
DE Yeast YFL014W (HSP12) PCR primer HSP12-F SEQ ID NO:1.
XX
XX
KW cold-inducible promoter activity; promoter; non-translational region;
KW Saccharomyces cerevisiae; yeast; vector; expression system;
KW RNA production regulation; molecular mechanism;
KW low-temperature inducibility; PCR; primer; ss.
XX
XX
OS Synthetic.
OS Saccharomyces cerevisiae.
XX
XX
PN WO2004003197-A1.
XX
XX
PD 08-JAN-2004.

```

```

XX 13-MAY-2003; 2003WO-JP005956.
PF
XX 28-JUN-2002; 2002JJP-00191383.
PR
XX (NAAD-) NAT INST ADVANCED IND SCI & TECHNOLOGY.
PA
XX Sahara T, Ohgiya S, Goda T, Kawasaki K;
XX WPI; 2004-083056/08.
XX
XX Yeast-originated promoters with cold-inducible activity for constructing
PT vectors and expression systems to produce difficult-to-obtain proteins
PT and for regulating RNA production.
XX
XX Example 2; SEQ ID NO 1; 106pp; Japanese.
XX
XX The present invention describes a DNA fragment with a cold-inducible
XX promoter activity which occurs in the non-translational region in the 5'-
XX upstream side of a gene selected from the 259 specified Saccharomyces
XX cerevisiae genes given in the specification (G) e.g. YAL014C and YPR200C.
XX Also described: (1) a similar DNA fragment containing: (a) a DNA derived
XX from any of the specified DNA fragments (G) but with some bases deleted,
XX substituted or added; or (b) a DNA hybridisable with a DNA fragment
XX containing a base sequence complementary to any of the specified DNA
XX fragments (G); (2) a similar DNA fragment containing a cis sequence of
XX DNA sequence A: GCTCATCG, or a DNA sequence of B: GAGATGAG; (3) a DNA
XX fragment with cold-inducible promoter activity containing: (a) a DNA
XX derived from the DNA fragment in (2) but with some bases deleted,
XX substituted or added; or (b) a DNA hybridisable with a DNA fragment
XX containing a base sequence complementary to the DNA fragment in (2); (4)
XX an expression vector containing any of the DNA fragments; (5) a
XX transforming which is transformed with any of the expression vector; (6)
XX producing a protein by culturing the transformant at a low temperature;
XX and (7) controlling RNA production by culturing the transformant at a low
XX temperature. The promoters are applicable in constructing vectors and
XX expression systems to produce difficult-to-obtain proteins and for
XX regulating RNA production as well as in studying the molecular mechanism
XX of low-temperature inducibility. The present sequence represents a PCR
XX primer which is used in an example from the present invention.
XX
XX Sequence 22 BP; 8 A; 3 C; 7 G; 4 T; 0 U; 0 Other;
SQ
Query Match 55.5%; Score 12.2; DB 12; Length 22;
Best Local Similarity 82.4%; Pred. No. 3.8e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 4 TGTTACAGGTAGAAAAG 20
DB 6 TGACCGAGGTAGAAAAG 22

RESULT 35
AAZ75337/c
ID AAZ75337 standard; DNA; 20 BP.
XX
XX AAZ75337;
AC
XX
XX 10-SEP-2001 (first entry)
DT
XX
XX Human biallelic marker downstream amplification primer SEQ ID NO:9693.
DE
XX
XX Human genome; biallelic marker; high density disequilibrium map;
KW genomic map; haplotype; phenotype; polymorphic base; genotyping;
KW haplotyping; hybridisation; identification; characterisation;
KW amplification; single nucleotide polymorphism; SNP; PCR primer;
XX diagnosis; ss.
XX
XX Homo sapiens.
OS
XX
XX WO9954500-A2.
PN
XX
XX 28-OCT-1999.
PD

XX 21-APR-1999; 99WO-IB000822.
PF
XX 21-APR-1998; 98US-0082614P.
PR
XX 23-NOV-1998; 98US-0109732P.
XX
XX (GEST ) GENSET.
PA
XX Cohen D, Blumenfeld M, Chumakov I;
XX WPI; 2000-013267/01.
XX
XX Novel biallelic markers used to construct a high density disequilibrium
PT map of the human genome.
PT
XX
XX Claim 8; Page 2297; 2745pp; English.
XX
XX AAZ65554 to AAZ69578 represent human biallelic markers from the present
XX invention, which contain a polymorphic base at position 24 of their
XX nucleotide sequences. AAZ69579 to AAZ77440 represent amplification
XX primers for the biallelic markers. The biallelic markers of the invention
XX have a variety of uses: they can be used for high density mapping of the
XX human genome, and in complex association studies and haplotyping studies
XX which are useful in determining the genetic basis for disease states.
XX Compositions and methods of the invention can also be useful for the
XX identification of the targets for the development of pharmaceutical
XX agents and diagnostic methods, as well as the characterisation of the
XX differential efficacious responses to and side effects from
XX pharmaceutical agents acting on a disease as well as other treatment.
XX N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and
XX 3367, are not actually given a sequence in the Sequence Listing from the
XX present invention
XX
XX Sequence 20 BP; 6 A; 6 C; 1 G; 7 T; 0 U; 0 Other;
SQ
Query Match 54.5%; Score 12; DB 3; Length 20;
Best Local Similarity 75.0%; Pred. No. 4.7e+04;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

OY 1 GCATGTTACAGGTAGAAAAG 20
DB 20 GTATGCTGAGGTATAAAAG 1

RESULT 36
ABK87660/c
ID ABK87660 standard; DNA; 20 BP.
XX
XX ABK87660;
AC
XX
XX 24-SEP-2002 (first entry)
DT
XX
XX Synthetic oligo #15, for selective randomisation of zinc finger protein.
DE
XX
XX Selectively randomised synthetic oligonucleotide; NNN randomisation;
KW resin-epititting; zinc finger; ss.
KW
XX
XX Synthetic.
OS
XX
XX WO200222634-A1.
XX
XX 21-MAR-2002.
PD
XX
XX 12-SEP-2001; 2001WO-GB004084.
XX
XX 12-SEP-2000; 2000GB-00022330.
XX
XX (SANG-) SANGAMO BIOSCIENCES INC.
XX
XX Choo Y, Isalan M;
XX
XX WPI; 2002-507792/54.
XX
XX

```

PT Making selectively randomized synthetic oligonucleotide by utilizing  
 PT phosphoramidite dinucleotide and mononucleotide synthesis strategy, where  
 PT a deprotecting step is performed after each coupling step.

XX Example 3; Fig 1B; 42pp; English.

XX The present invention relates to a new method of making selectively  
 CC randomised synthetic oligonucleotides. The method involves deprotecting  
 CC starting material at 3' position, which is coupled to support in nucleic  
 CC acid synthesiser, coupling dinucleotide phosphoramidite to 3' position,  
 CC deprotecting the new 3' position of extended oligonucleotide, coupling  
 CC mononucleotide phosphoramidite to the 3' position and repeating coupling  
 CC steps until desired length oligonucleotide is obtained. The method of the  
 CC invention is useful for making selectively randomised synthetic  
 CC oligonucleotides. Unlike prior art techniques, the method provides  
 CC randomised oligonucleotides without the problems of NNN randomisation,  
 CC without having to resort to complicated resin-splitting procedures or the  
 CC use of low coupling efficiency trinucleotide phosphoramidites. The  
 CC present nucleic acid sequence represents one of a collection (ABK87646-  
 CC ABK87669 and ABK87671-ABK87676) of synthetic oligonucleotides that were  
 CC used in the invention for selective randomisation of zinc finger protein  
 XX SQ Sequence 20 BP; 1 A; 6 C; 3 G; 6 T; 0 U; 4 Other;

Query Match 54.5%; Score 12; DB 6; Length 20;  
 Best Local Similarity 66.7%; Pred. No. 4.7e+04;  
 Matches 12; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGTTACAGGTAGAAAAGC 21  
 Db 19 TGKCCGAGKYAGAAAAGC 2

RESULT 37

ADJ17616/C

ID ADJ17616 standard; DNA; 20 BP.

AC ADJ17616;

XX 20-MAY-2004 (first entry)

XX Antisense DNA oligo used to modulate human LRH1 expression SeqID 2166.

XX human; ss; liver related homologue-1; LRH1; NR5A2; antisense;  
 KW phosphorothioate; 2' MOE; breast cancer; dyslipidaemia; atherosclerosis;  
 KW low HDL; high density lipoprotein; high LDL; hypercholesterolaemia;  
 KW gall stone; triglyceridaemia; obesity; hepatitis;  
 KW hepatocellular carcinoma; aromatase; cytotstatic; antilipaemic;  
 KW antiarteriosclerotic; anorectic; hepatotropic; litholytic;  
 KW antiinflammatory; virucidal.

XX Homo sapiens.

OS Synthetic.

XX Key Location/Qualifiers

FT modified\_base 1..20

FT /\*tag= b

FT /mod\_base= OTHER

FT /label= OTHER= phosphorothioate backbone

FT modified\_base 1..5

FT /\*tag= a

FT /mod\_base= OTHER

FT /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All

FT cytidine nucleobases are 5-methylcytidine."

FT modified\_base 16..20

FT /\*tag= c

FT /mod\_base= OTHER

FT /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All

FT cytidine nucleobases are 5-methylcytidine."

XX WO2004003201-A2.

XX 08-JAN-2004.

PD

XX 01-JUL-2003; 2003WO-US020865.  
 PF  
 XX 01-JUL-2002; 2002US-0392813P.  
 PR

XX (PHAA ) PHARMACIA CORP.

XX Kane CD;

XX WPI; 2004-083059/08.

XX New antisense oligonucleotides targeted to a nucleic acid encoding liver  
 PT related homologue-1 (LRH1), useful for treating breast cancer,  
 PT dyslipidemia, atherosclerosis, hypercholesterolemia, or hepatitis.

XX Example 15; SEQ ID NO 2166; 909pp; English.

XX This invention relates to novel antisense compounds useful for modulating  
 CC the expression of liver related homologue-1 (LRH1) and splice variants  
 CC thereof. Specifically, it refers to compositions 8-30 nucleobases in  
 CC length that target a portion of an active site on the nucleic acid  
 CC molecule encoding LRH1 (also known as NR5A2). LRH1 is a monomeric orphan  
 CC nuclear receptor protein that functions as a tissue specific  
 CC transcription factor. The present invention describes antisense  
 CC oligonucleotides that comprise at least one modified internucleoside  
 CC linkage, a phosphorothioate linkage; at least one modified sugar moiety,  
 CC a 2'-O-methoxyethyl (2' MOE) and at least one modified nucleobase, a 5-  
 CC methylcytidine. These antisense compounds are useful for treating or  
 CC diagnosing a disease associated with LRH1, such as breast cancer,  
 CC dyslipidaemia, atherosclerosis, low HDL (high density lipoprotein), high  
 CC LDL (low density lipoprotein), hypercholesterolaemia, gall stones,  
 CC triglyceridaemia, obesity, hepatitis B virus-mediated acute or chronic  
 CC hepatitis, as well as hepatocellular carcinoma or a condition associated  
 CC with aromatase activity. Accordingly, these compositions exhibit  
 CC cytostatic, antilipaemic, antiarteriosclerotic, anorectic, hepatotropic,  
 CC litholytic, antiinflammatory and virucidal activities. This  
 CC oligonucleotide sequence is an antisense DNA oligo used to modulate the  
 CC expression of the human LRH1 protein of the invention.

XX Sequence 20 BP; 4 A; 5 C; 4 G; 7 T; 0 U; 0 Other;

Query Match 54.5%; Score 12; DB 12; Length 20;

Best Local Similarity 75.0%; Pred. No. 4.7e+04;

Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAAGCC 22

Db 20 ATGCCACAGGTATGAAAAGTC 1

RESULT 38

ADL01087

ID ADL01087 standard; DNA; 20 BP.

XX ADL01087;

XX 20-MAY-2004 (first entry)

XX Human VEGF co-regulated chemokine-1 DNA antisense oligonucleotide #620.

XX Human; VEGF co-regulated chemokine-1; VCC-1;

XX vascular endothelial growth factor; ss; antisense compound;

XX phosphorothioate linkage; 2'-O-methoxyethyl sugar moiety;

XX 5-methylcytosine; antisense oligonucleotide; diabetes;

XX immunological disorder; cardiovascular disorder; neurological disorder;

XX ischaemia; reperfusion injury; cancer; angrogenic disorder; haemangioma;

XX tumour angiogenesis; rheumatoid arthritis; atherosclerosis; psoriasis;

XX fibrosis; myocardial infarction; wound healing; bone fracture;

XX cartilage damage; tissue regeneration; organ regeneration;

XX periodontal disease; gut regeneration; atrial fibrillation.

XX Homo sapiens.

OS

XX

PN WO2004016224-A2.  
 XX 26-FEB-2004.  
 PD 19-AUG-2003; 2003WO-US025891.  
 XX 19-AUG-2002; 2002US-040484P.  
 XX (PHAA ) PHARMACIA CORP.  
 PA Weinstein EJ;  
 PI WPI; 2004-192065/18.  
 DR New antisense compounds targeted to a nucleic acid molecule encoding  
 XX vascular endothelial growth factor co-regulated chemokine-1 (VCC-1),  
 PT useful for treating VCC-1-associated disorders, e.g. diabetes or a  
 PT neurologic disorder.  
 XX Claim 4; SEQ ID NO 620; 336pp; English.  
 PS The invention relates to an antisense compound targeted to a nucleic acid  
 XX molecule encoding human vascular endothelial growth factor (VEGF) co-  
 CC regulated chemokine-1 (VCC-1), and which specifically hybridizes with and  
 CC inhibits the expression of VCC-1. The invention also relates to a  
 CC composition comprising the antisense compound, a method of inhibiting the  
 CC expression of VCC-1 in cells or tissues comprising contacting the cells  
 CC or tissues with the antisense compound and a method of treating a human  
 CC having a disease or condition associated with VCC-1 comprising  
 CC administering the antisense compound to an animal to inhibit expression  
 CC of VCC-1. The antisense oligonucleotide comprises at least one modified  
 CC internucleoside linkage, preferably a phosphorothioate linkage. It also  
 CC comprises at least one modified sugar moiety, preferably a 2'-O-  
 CC methoxyethyl sugar moiety, and at least one modified nucleobase,  
 CC specifically a 5-methylcytosine. The antisense oligonucleotide preferably  
 CC is a chimeric oligonucleotide. The antisense compound is useful for  
 CC treating a disease or condition associated with VCC-1, such as diabetes,  
 CC an immunological disorder, a cardiovascular disorder, a neurological  
 CC disorder, ischaemia, reperfusion injury, cancer or an angiogenic  
 CC disorder, e.g. haemangioma, tumour angiogenesis, rheumatoid arthritis,  
 CC atherosclerosis, psoriasis or fibrosis after myocardial infarction. VCC-1  
 CC antisense oligonucleotides may also be used for wound healing, for  
 CC healing of bone fractures and cartilage damage, for regeneration of  
 CC tissues or organs, for treating periodontal diseases, for gut protection  
 CC or regeneration, for treatment of lung or liver fibrosis or for  
 CC management of atrial fibrillation. This sequence represents an antisense  
 CC oligonucleotide targeted to DNA encoding the human VCC-1 polypeptide of  
 XX the invention.  
 SQ Sequence 20 BP; 6 A; 4 C; 3 G; 7 T; 0 U; 0 Other;  
 Query Match 54.5%; Score 12; DB 12; Length 20;  
 Best Local Similarity 75.0%; Pred. No. 4.7e+04;  
 Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
 QY 3 ATGTTACAGGTAGAAAGCC 22  
 |||||  
 DB 1 ATCTTTCAGGTAATTAAGCC 20  
 RESULT 39  
 AAH62090/c  
 ID AAH62090 standard; DNA; 21 BP.  
 XX  
 AC AAH62090;  
 XX  
 DT 10-SEP-2001 (first entry)  
 XX  
 DE VEGF hammerhead ribozyme recognition site SEQ ID NO:4514.  
 XX Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;  
 KW recognition site; target; ribozyme binding site; eye disease; vulnary;  
 KW proliferative disease; skin disease; psoriasis; diabetic retinopathy;  
 KW

KW cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;  
 KW matrix metalloproteinase; growth factor; reductase; scarring; cytostatic;  
 KW antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;  
 KW antiskinning; ophthalmological; keratolytic; gene therapy; viral wart;  
 KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;  
 KW basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;  
 KW sickle cell retinopathy; ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX WO200130362-A2.  
 PN 03-MAY-2001.  
 PD 26-OCT-2000; 2000WO-US029500.  
 XX 26-OCT-1999; 99US-0161532P.  
 PR (IMMU-) IMMUSOL INC.  
 XX Robbins JM, Tritz R;  
 PI WPI; 2001-300427/31.  
 DR Treating proliferative skin or eye diseases and scarring, using ribozymes  
 XX that cleave RNA encoding cytokines involved in inflammation, matrix  
 PT metalloproteinases, growth factors and cell-cycle dependent kinases.  
 PT Example 1; Page 26; 408pp; English.  
 PS The present invention describes a method for treating a proliferative  
 XX skin or eye disease and scarring. The method involves administering a  
 CC ribozyme (I) which cleaves RNA encoding a cytokine involved in  
 CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle  
 CC dependent kinase, growth factor or a reductase, or administering a  
 CC nucleic acid molecule (II) comprising a promoter operably linked to a  
 CC nucleic acid segment encoding (I). (I) can have antipsoriatic,  
 CC dermatological, cytostatic, antiseborrheic, antidiabetic, antiskinning,  
 CC ophthalmological, vulnary, keratolytic and virucide activities, and  
 CC cleaves RNA encoding cytokine involved in inflammation. (I) can be used  
 CC in gene therapy. (I) and (II) are useful for treating proliferative skin  
 CC diseases such as psoriasis, atopic dermatitis, actinic keratosis,  
 CC squamous or basal cell carcinoma and viral or seborrheic wart. They can  
 CC also be used for treating proliferative eye diseases such as diabetic  
 CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of  
 CC prematurity and retinal detachment, and for treating and preventing  
 CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn  
 CC scar. AAH57577 to AAH62099 represent sequences used in the  
 CC exemplification of the present invention  
 XX Sequence 21 BP; 3 A; 9 C; 3 G; 6 T; 0 U; 0 Other;  
 SQ Query Match 54.5%; Score 12; DB 5; Length 21;  
 Best Local Similarity 75.0%; Pred. No. 4.8e+04;  
 Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
 QY 2 CATGTTACAGGTAGAAAGC 21  
 |||||  
 DB 21 CATGTTGAGGTAGAGCAGC 2  
 RESULT 40  
 AD016516  
 ID AD016516 standard; DNA; 22 BP.  
 XX  
 AC AD016516;  
 XX  
 DT 29-JUL-2004 (first entry)  
 XX  
 DE 4 synthesis-period of neuroblastoma related primer, SEQ ID 778.  
 KW Human; 4 synthesis-period; neuroblastoma; stage 4S; primer; ss.  
 KW

```

XX Synthetic.
OS WO2004039975-A1.
XX 13-MAY-2004.
XX 30-OCT-2003; 2003WO-JP013932.
XX 30-OCT-2002; 2002JP-00316586.
XX (HISM) HISAMITSU PHARM CO LTD.
XX (CHIB-) CHIBA PREFECTURE.
XX Nakagawara A, Ohira M;
XX WPI; 2004-390323/36.
XX Novel nucleic acid obtained from 4 synthesis-period of neuroblastoma
XX cells useful for prognosing and determining progress stage of
XX neuroblastomas.
XX Claim 8; SEQ ID NO 778; 455pp; Japanese.
XX The present invention relates to human nucleic acid sequences (I;
XX AD015739-AD015912) obtained from 4 synthesis-period (stage 4S) of
XX neuroblastoma cell. (I) is useful for prognosing and determining the
XX progress stage of 4 synthesis-period of neuroblastoma. The present
XX sequence is a primer, used to illustrate the invention.
XX SQ Sequence 22 BP; 10 A; 6 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 54.5%; Score 12; DB 12; Length 22;
Best Local Similarity 100.0%; Pred. No. 4.8e+04;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 TACAGGTAGAAA 18
Db 1 TACAGGTAGAAA 12

```

Search completed: August 12, 2005, 08:58:58  
Job time : 245 secs



GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 08:29:02 ; Search time 95 Seconds  
(without alignments)  
378.927 Million cell updates/sec

Title: US-09-743-825-7

Perfect score: 22

Sequence: 1 gcatttcacaggtagaagcc 22

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 487750

Minimum DB seq length: 0

Maximum DB seq length: 22

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

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3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq.\*

4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq.\*

5: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq.\*

6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	15.2	69.1	20	4	US-09-198-452A-5333
C 2	13.2	60.0	21	4	US-09-689-065B-50
C 3	12.8	58.2	19	3	US-09-564-805-157
C 4	12.2	55.5	18	3	US-08-840-316-53
C 5	12.2	55.5	18	3	US-08-809-523-53
C 6	12.2	55.5	18	3	US-08-471-971-53
C 7	12.2	55.5	18	3	US-09-402-978-4779
C 8	12.2	55.5	18	4	US-08-470-246-53
C 9	12.2	55.5	18	4	US-08-316-765-53
C 10	12.2	55.5	18	4	US-09-724-475-53
C 11	12.2	55.5	18	5	PCT-US93-08849A-53
C 12	12.2	55.5	18	5	PCT-US93-08849-53
C 13	12.2	55.5	20	3	US-09-702-251-44
C 14	12.2	55.5	20	3	US-08-765-340-23
C 15	12.2	54.5	20	4	US-09-422-978-9693
C 16	12.2	54.5	20	4	US-09-696-791-4514
C 17	12.2	54.5	21	4	US-09-422-978-6072
C 18	11.8	53.6	19	4	US-08-477-270-27
C 19	11.8	53.6	20	1	US-09-487-445-98
C 20	11.8	52.7	19	3	US-09-648-520B-29
C 21	11.6	52.7	19	4	US-09-422-978-4544
C 22	11.4	51.8	17	3	US-08-985-162-702
C 23	11.4	51.8	17	3	US-08-985-162-703
C 24	11.4	51.8	17	3	US-08-985-162-704
C 25	11.4	51.8	17	3	US-08-985-162-705
C 26	11.4	51.8	17	3	US-08-584-040-1534
C 27	11.4	51.8	17	3	US-08-584-040-1534

28	11.4	51.8	17	4	US-09-371-772B-79	Sequence 79, Appl
29	11.4	51.8	17	4	US-09-371-772B-4284	Sequence 4284, Ap
30	11.4	51.8	17	4	US-09-401-063-702	Sequence 702, App
31	11.4	51.8	17	4	US-09-401-063-703	Sequence 703, App
32	11.4	51.8	17	4	US-09-401-063-704	Sequence 704, App
33	11.4	51.8	17	4	US-09-401-063-705	Sequence 705, App
34	11.4	51.8	17	4	US-09-685-664B-79	Sequence 79, Appl
35	11.4	51.8	18	3	US-08-981-988A-27	Sequence 27, Appl
36	11.4	51.8	19	3	US-09-531-000-7	Sequence 7, Appl
37	11.4	51.8	19	3	US-09-531-000-34	Sequence 34, Appl
38	11.4	51.8	19	3	US-09-531-000-38	Sequence 38, Appl
39	11.4	51.8	19	4	US-09-422-978-6684	Sequence 6684, Ap
40	11.4	51.8	20	3	US-08-882-046-89	Sequence 89, Appl
41	11.4	51.8	20	3	US-09-716-161A-85	Sequence 85, Appl
42	11.4	51.8	20	4	US-09-198-452A-3425	Sequence 3425, Ap
43	11.4	51.8	20	4	US-09-843-376-44	Sequence 44, Appl
44	11.4	51.8	20	4	US-09-555-554-13	Sequence 13, Appl
45	11.4	51.8	20	4	US-09-112-580-230	Sequence 230, Appl
46	11.4	51.8	20	4	US-09-586-047-89	Sequence 89, Appl
47	11.4	51.8	20	4	US-09-953-318-28	Sequence 28, Appl
48	11.4	51.8	21	3	US-08-936-107A-26	Sequence 26, Appl
49	11.4	51.8	21	4	US-09-422-978-6627	Sequence 6627, Ap
50	11.4	51.8	22	4	US-09-548-130-9	Sequence 9, Appl
51	11.4	51.8	22	4	US-10-119-466-6	Sequence 6, Appl
52	11.2	50.9	18	1	US-08-434-255-20	Sequence 20, Appl
53	11.2	50.9	18	1	US-08-459-967-20	Sequence 20, Appl
54	11.2	50.9	18	1	US-08-460-327-20	Sequence 20, Appl
55	11.2	50.9	18	1	US-08-459-871-20	Sequence 20, Appl
56	11.2	50.9	20	1	US-08-240-012-9	Sequence 9, Appl
57	11.2	50.9	20	3	US-08-896-162A-9	Sequence 9, Appl
58	11.2	50.9	20	4	US-08-963-605-261	Sequence 261, App
59	11.2	50.9	20	4	US-09-289-446D-107	Sequence 107, App
60	11.2	50.9	21	4	US-09-422-978-11567	Sequence 11567, A
61	11.2	50.9	22	1	US-08-446-918A-9	Sequence 9, Appl
62	11.2	50.9	22	2	US-08-580-806-9	Sequence 9, Appl
63	11.2	50.9	22	3	US-08-188-275A-11	Sequence 11, Appl
64	11	50.0	19	1	US-07-768-437-14	Sequence 14, Appl
65	11	50.0	19	1	US-07-768-437-15	Sequence 15, Appl
66	11	50.0	20	3	US-09-513-729B-26	Sequence 26, Appl
67	11	50.0	20	3	US-09-382-616A-38	Sequence 38, Appl
68	11	50.0	20	3	US-09-484-617-80	Sequence 80, Appl
69	11	50.0	20	3	US-09-563-826-7	Sequence 7, Appl
70	11	50.0	20	3	US-09-580-189-3	Sequence 3, Appl
71	11	50.0	20	4	US-09-305-856B-23	Sequence 23, Appl
72	11	50.0	20	4	US-09-728-466-38	Sequence 38, Appl
73	11	50.0	20	4	US-09-533-149-7	Sequence 7, Appl
74	11	50.0	21	1	US-08-136-741-5	Sequence 5, Appl
75	11	50.0	21	3	US-08-840-316-12	Sequence 12, Appl
76	11	50.0	21	3	US-08-809-523-12	Sequence 12, Appl
77	11	50.0	21	3	US-08-471-971-12	Sequence 12, Appl
78	11	50.0	21	3	US-09-402-776-12	Sequence 12, Appl
79	11	50.0	21	4	US-09-422-978-10032	Sequence 10032, A
80	11	50.0	21	4	US-08-470-246-12	Sequence 12, Appl
81	11	50.0	21	4	US-08-316-765-12	Sequence 12, Appl
82	11	50.0	21	5	PCT-US93-08849A-12	Sequence 12, Appl
83	11	50.0	21	5	PCT-US93-08849-12	Sequence 12, Appl
84	11	50.0	22	3	US-08-545-196B-30	Sequence 30, Appl
85	11	50.0	22	3	US-08-249-386A-12	Sequence 12, Appl
86	10.8	49.1	20	1	US-08-844-634-160	Sequence 160, App
87	10.8	49.1	20	3	US-09-422-978-6306	Sequence 6306, Ap
88	10.8	49.1	20	4	US-10-027-983-91	Sequence 91, Appl
89	10.8	49.1	20	4	US-10-029-517-85	Sequence 85, Appl
90	10.8	49.1	20	4	US-10-215-448-78	Sequence 78, Appl
91	10.8	49.1	20	4	US-10-029-517-85	Sequence 85, Appl
92	10.8	49.1	20	5	PCT-US95-06160-12	Sequence 12, Appl
93	10.8	49.1	22	1	US-08-394-210-5	Sequence 5, Appl
94	10.6	48.2	18	3	US-09-106-038A-50	Sequence 50, Appl
95	10.6	48.2	18	3	US-09-338-907-414	Sequence 414, App
96	10.6	48.2	18	3	US-09-218-207-414	Sequence 414, App
97	10.6	48.2	18	4	US-09-422-978-8311	Sequence 8311, Ap
98	10.6	48.2	18	4	US-09-422-978-8311	Sequence 8311, Ap
99	10.6	48.2	19	4	US-09-422-978-9517	Sequence 9517, Ap
100	10.6	48.2	19	4	US-09-696-791-1775	Sequence 1775, Ap

## ALIGNMENTS

```
RESULT 1
US-09-198-452A-5333/c
; Sequence 5333, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffaig, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; PRIOR FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 5333
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-5333

Query Match      69.1%; Score 15.2; DB 4; Length 20;
Best Local Similarity 85.0%; Pred. No. 3.2e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      1 GCATGTTACAGGTAGAAAAG 20
Db      20 GCCTGTTCCAGTAGAAAAG 1

RESULT 2
US-09-689-065B-50
; Sequence 50, Application US/09689065B
; Patent No. 6605696
; GENERAL INFORMATION:
; APPLICANT: Pfizer Products, Inc.
; TITLE OF INVENTION: LAWSONIA INTRACELLULARIS PROTEINS AND RELATED METHODS AND MATERIALS
; FILE REFERENCE: 3153.00187/PC10589A
; CURRENT APPLICATION NUMBER: US/09/689,065B
; CURRENT FILING DATE: 2000-10-12
; PRIOR APPLICATION NUMBER: US Prov. 60/160,922
; PRIOR FILING DATE: 1999-10-22
; PRIOR FILING DATE: 1999-11-05
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 50
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Lawsonia intracellularis
US-09-689-065B-50

Query Match      60.0%; Score 13.2; DB 4; Length 21;
Best Local Similarity 83.3%; Pred. No. 3.1e+03;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      4 TGTTCAGGTAGAAAAGC 21
Db      2 TGTTCAGCAAGAAAAGC 19

RESULT 3
US-09-564-805-157/c
; Sequence 157, Application US/09564805
; Patent No. 6333403
; GENERAL INFORMATION:
; APPLICANT: Tavtigian, Sean V.
; APPLICANT: Teng, David H.F.
; APPLICANT: Simard, Jacques
US-09-564-805-157/c
```

```
; APPLICANT: Rommens, Johanna M.
; APPLICANT: Myriad Genetics, Inc.
; TITLE OF INVENTION: Chromosome 17p-Linked Prostate Cancer Susceptibility
; FILE REFERENCE: 2318-258
; CURRENT APPLICATION NUMBER: US/09/564,805
; CURRENT FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: US 60/107,468
; PRIOR FILING DATE: 1998-11-06
; PRIOR APPLICATION NUMBER: 09/434,382
; PRIOR FILING DATE: 1999-11-05
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 157
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-564-805-157

Query Match      58.2%; Score 12.8; DB 3; Length 19;
Best Local Similarity 87.5%; Pred. No. 4.8e+03;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      3 ATGTTACAGGTAGAAA 18
Db      19 ATGTCACAGGCAGAAA 4

RESULT 4
US-08-840-316-53
; Sequence 53, Application US/08840316
; Patent No. 6054567
; GENERAL INFORMATION:
; APPLICANT: Emerson, Suzanne U., Purcell, Robert H.,
; APPLICANT: Tsarev, Sergei. A., and Robinson, Robin A.
; TITLE OF INVENTION: Recombinant Proteins Of
; TITLE OF INVENTION: A Pakistani Strain Of Hepatitis E And Their
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/840,316
; FILING DATE: 11-APR-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Richard W. Bork
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4255
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 53:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-840-316-53
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Query Match 55.5%; Score 12.2; DB 3; Length 18;  
Best Local Similarity 82.4%; Pred. No. 9.3e+03;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21  
||||| |||||  
Db 2 GTTACAGCCAGAAAACC 18

RESULT 5  
US-08-809-523-53  
; Sequence 53, Application US/0809523  
; Patent No. 6207416  
; GENERAL INFORMATION:  
; APPLICANT: Tsarev, Sergei. A., Emerson,  
; APPLICANT: Suzanne U., Purcell, Robert H.  
; TITLE OF INVENTION: Recombinant Proteins Of  
; TITLE OF INVENTION: A Pakistani Strain Of Hepatitis E And Their  
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines  
; NUMBER OF SEQUENCES: 107  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN, L.L.P.  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/809,523  
; FILING DATE: 28-MAY-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/13102  
; FILING DATE: 03-OCT-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US08/316,765  
; FILING DATE: 03-OCT-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/947,263  
; FILING DATE: 18-SEP-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Richard W. Bork  
; REGISTRATION NUMBER: 36,459  
; REFERENCE/DOCKET NUMBER: 2026-4032US4  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 751-6849  
; TELEFAX: (212) 758-4800  
; INFORMATION FOR SEQ ID NO: 53:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-809-523-53

Query Match 55.5%; Score 12.2; DB 3; Length 18;  
Best Local Similarity 82.4%; Pred. No. 9.3e+03;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21  
||||| |||||  
Db 2 GTTACAGCCAGAAAACC 18

RESULT 6  
US-08-471-971-53  
; Sequence 53, Application US/08471971  
; Patent No. 6287759

; GENERAL INFORMATION:  
; APPLICANT: Tsarev, Sergei. A., Emerson,  
; APPLICANT: Suzanne U., Purcell, Robert H.  
; TITLE OF INVENTION: Recombinant Proteins Of  
; TITLE OF INVENTION: A Pakistani Strain Of Hepatitis E And Their  
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines  
; NUMBER OF SEQUENCES: 107  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/471,971  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US08/316,765  
; FILING DATE: 03-OCT-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US07/947,263  
; FILING DATE: 18-SEP-1992  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Richard W. Bork  
; REGISTRATION NUMBER: 36,459  
; REFERENCE/DOCKET NUMBER: 2026-4032US2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 751-6849  
; TELEFAX: (212) 751-6849  
; INFORMATION FOR SEQ ID NO: 53:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-471-971-53

Query Match 55.5%; Score 12.2; DB 3; Length 18;  
Best Local Similarity 82.4%; Pred. No. 9.3e+03;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21  
||||| |||||  
Db 2 GTTACAGCCAGAAAACC 18

RESULT 7  
US-09-402-776-53  
; Sequence 53, Application US/09402776  
; Patent No. 6458562  
; GENERAL INFORMATION:  
; APPLICANT: Emerson, Suzanne U., Purcell, Robert H.,  
; APPLICANT: Tsarev, Sergei. A., and Robinson, Robin A.  
; TITLE OF INVENTION: Recombinant Proteins Of  
; TITLE OF INVENTION: A Pakistani Strain Of Hepatitis E And Their  
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines  
; NUMBER OF SEQUENCES: 111  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154

```

; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/402,776
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/840,316
; FILING DATE: 11-APR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Richard W. Bork
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4255
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 53:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-09-402-776-53
;
Query Match 55.5%; Score 12.2; DB 3; Length 18;
Best Local Similarity 82.4%; Pred. No. 9.3e+03;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21
Db 2 GTTACAGCCAGAAAACC 18

RESULT 8
US-09-422-978-4779
; Sequence 4779, Application US/09422978
; Patent No. 6537751
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Ballelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET.020CPI
; CURRENT APPLICATION NUMBER: US/09/422,978
; CURRENT FILING DATE: 1999-10-20
; EARLIER APPLICATION NUMBER: US 09/298,850
; EARLIER FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 60/109,732
; EARLIER FILING DATE: 1998-11-23
; EARLIER APPLICATION NUMBER: US 60/082,614
; EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 4779
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Homo Sapiens
; NAME/KEY: primer_bind
; LOCATION: 3..18
; OTHER INFORMATION: upstream amplification primer 99-17762 for SEQ 845,
US-09-422-978-4779
;
Query Match 55.5%; Score 12.2; DB 4; Length 18;
Best Local Similarity 82.4%; Pred. No. 9.3e+03;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGTGAGAGGTAGAAAAG 20
Db 1 TGTGAGAGGTAGAGAAG 17

```

```

RESULT 9
US-08-470-246-53
; Sequence 53, Application US/08470246
; Patent No. 6696242
; GENERAL INFORMATION:
; APPLICANT: Tsarev, Sergei. A.; Emerson, H.
; APPLICANT: Suzanne U., Purcell, Robert H.
; TITLE OF INVENTION: Recombinant Proteins Of
; TITLE OF INVENTION: A Pakistani Strain Of Hepatitis E And Their
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/470,246
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US08/316,765
; FILING DATE: 03-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US07/947,263
; FILING DATE: 18-SEP-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Richard W. Bork
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4032US3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 53:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-470-246-53
;
Query Match 55.5%; Score 12.2; DB 4; Length 18;
Best Local Similarity 82.4%; Pred. No. 9.3e+03;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21
Db 2 GTTACAGCCAGAAAACC 18

RESULT 10
US-08-316-765-53
; Sequence 53, Application US/08316765
; Patent No. 6706873
; GENERAL INFORMATION:
; APPLICANT: Tsarev, Sergei. A.; Emerson, H.
; APPLICANT: Suzanne U., Purcell, Robert H.
; TITLE OF INVENTION: Recombinant Proteins Of
; TITLE OF INVENTION: A Pakistani Strain Of Hepatitis E And Their
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN

```

```

; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA: 08/316,765
; APPLICATION NUMBER: US/08/316,765
; FILING DATE: 03-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US07/947,263
; FILING DATE: 18-SEP-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Richard W. Bork
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4032US1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 53:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-316-765-53
;
; Query Match 55.5%; Score 12.2; DB 4; Length 18;
; Best Local Similarity 82.4%; Pred. No. 9.3e+03;
; Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
;
Qy 5 GTTACAGGTAGAAAGC 21
Db 2 GTTACAGCCAGAAACC 18
;
; RESULT 11
; US-09-724-475-53
; Sequence 53, Application US/09724475
; Patent No. 6787145
; GENERAL INFORMATION:
; APPLICANT: Tsarev, Sergei. A.; Emerson,
; Suzanne U.; Purcell, Robert H.
; TITLE OF INVENTION: Recombinant Proteins Of
; A Pakistani Strain Of Hepatitis E And Their
; Use In Diagnostic Methods And Vaccines
;
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN, L.L.P.
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/724,475
; FILING DATE: 28-NOV- 6787145-2000
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/809,523
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US08/316,765
; FILING DATE: 03-OCT-1994
;
;
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/724,475
; FILING DATE: 28-NOV- 6787145-2000
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/809,523
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US08/316,765
; FILING DATE: 03-OCT-1994
;
;
; APPLICATION NUMBER: 07/947,263
; FILING DATE: 18-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Richard W. Bork
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4032US4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 53:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 53:
; US-09-724-475-53
;
; Query Match 55.5%; Score 12.2; DB 4; Length 18;
; Best Local Similarity 82.4%; Pred. No. 9.3e+03;
; Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
;
Qy 5 GTTACAGGTAGAAAGC 21
Db 2 GTTACAGCCAGAAACC 18
;
; RESULT 12
; PCT-US93-08849A-53
; Sequence 53, Application PC/TUS9308849A
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Recombinant Proteins Of
; A Pakistani Strain Of Hepatitis E And Their
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines
; NUMBER OF SEQUENCES: 98
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/08849A
; FILING DATE: 17-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US07/947,263
; FILING DATE: 18-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: William S. Feiler
; REGISTRATION NUMBER: 26,728
; REFERENCE/DOCKET NUMBER: 2026-4032 PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 751-6849
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 53:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PCT-US93-08849A-53
;
; Query Match 55.5%; Score 12.2; DB 5; Length 18;
; Best Local Similarity 82.4%; Pred. No. 9.3e+03;
; Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
;
```

Qy 5 GTTACAGGTAGAAAAC 21  
|||||  
Db 2 GTTACAGCCAGAAAAC 18

## RESULT 13

PCT-US93-08849-53  
; Sequence 53, Application PC/TUS9308849  
; GENERAL INFORMATION:  
; APPLICANT: Tsarev, Sergei A., Emerson,  
; APPLICANT: Suzanne U., Purcell, Robert H.  
; TITLE OF INVENTION: Recombinant Proteins Of  
; TITLE OF INVENTION: A Pakistani Strain Of Hepatitis B And Their  
; TITLE OF INVENTION: Use In Diagnostic Methods And Vaccines  
; NUMBER OF SEQUENCES: 98  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC COMPATIBLE  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WORDPERFECT 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US93/08849  
; FILING DATE: 17-SEP-1993  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/947,263  
; FILING DATE: 18-SEP-1992  
; NAME:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Bork, Richard, W.  
; REGISTRATION NUMBER: 36,459  
; REFERENCE/DOCKET NUMBER: 2026-4032  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 758-4800  
; TELEFAX: (212) 751-6849  
; INFORMATION FOR SEQ ID NO: 53:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
PCT-US93-08849-53

Query Match 55.5%; Score 12.2; DB 5; Length 18;  
Best Local Similarity 82.4%; Pred. No. 9.3e+03;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAC 21  
|||||  
Db 2 GTTACAGCCAGAAAAC 18

## RESULT 14

US-09-702-251-44/C  
; Sequence 44, Application US/09702251  
; Patent No. 6372492  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Lex M. Cowser  
; TITLE OF INVENTION: ANTISENSE MODULATION OF TALIN EXPRESSION  
; FILE REFERENCE: RTS-0199  
; CURRENT APPLICATION NUMBER: US/09/702,251  
; CURRENT FILING DATE: 2000-10-30  
; NUMBER OF SEQ ID NOS: 89  
; SEQ ID NO 44  
; LENGTH: 20

; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-09-702-251-44

Query Match 55.5%; Score 12.2; DB 3; Length 20;  
Best Local Similarity 82.4%; Pred. No. 9.5e+03;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGTTCAGGTAGAAAAG 20  
|||||  
Db 19 TGTTCAGGCAGCAAG 3  
|||||

## RESULT 15

US-08-765-340-23  
; Sequence 23, Application US/08765340  
; Patent No. 6150092  
; GENERAL INFORMATION:  
; APPLICANT: UCHIDA, K.,  
; APPLICANT: UCHIDA, T.,  
; APPLICANT: TANAKA, Y.,  
; APPLICANT: MATSUDA, Y.,  
; APPLICANT: KONDO, S.  
; TITLE OF INVENTION: AN ANTISENSE NUCLEIC ACID  
; TITLE OF INVENTION: COMPOUND  
; NUMBER OF SEQUENCES: 185  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORGAN & FINNEGAN, L.L.P.  
; STREET: 345 PARK AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version  
; SOFTWARE: #1.30 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/765,340  
; FILING DATE: 23-DEC-1996  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 145146/94  
; FILING DATE: 27-JUN-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 311130/94  
; FILING DATE: 21-NOV-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: SERUNIAN, LESLIE  
; REGISTRATION NUMBER: 35,353  
; REFERENCE/DOCKET NUMBER: 1452-4005  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 758-4800  
; TELEFAX: (212) 751-6849  
; INFORMATION FOR SEQ ID NO: 23:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "synthetic DNA"  
US-08-765-340-23

Query Match 54.5%; Score 12; DB 3; Length 20;  
Best Local Similarity 75.0%; Pred. No. 1.2e+04;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGTAGAAAAG 20  
|||||

Db 1 GCATGGTGGAGGTAGAGCAG 20

RESULT 16

US-09-422-978-9693/c  
; Sequence 9693, Application US/09422978  
; Patent No. 6537751

GENERAL INFORMATION:

APPLICANT: Cohen, Daniel  
APPLICANT: Blumenfeld, Marta  
TITLE OF INVENTION: Blallelic markers for use in constructing a high density...

FILE REFERENCE: GENSET.020Cp1  
CURRENT FILING DATE: 1999-10-20

EARLIER APPLICATION NUMBER: US 09/422,978  
EARLIER FILING DATE: 1999-04-21

EARLIER APPLICATION NUMBER: US 09/298,850  
EARLIER FILING DATE: 1998-11-23

EARLIER APPLICATION NUMBER: US 60/109,732  
EARLIER FILING DATE: 1998-04-21

EARLIER APPLICATION NUMBER: US 60/082,614  
EARLIER FILING DATE: 1998-04-21

NUMBER OF SEQ ID NOS: 11796  
SEQ ID NO 9693

LENGTH: 20

TYPE: DNA

ORGANISM: Homo Sapiens

FEATURE:

NAME/KEY: primer\_bind

LOCATION: 1..20

OTHER INFORMATION: downstream amplification primer 99-669 for SEQ 1828, in complement  
US-09-422-978-9693

Query Match 54.5%; Score 12; DB 4; Length 20;

Best Local Similarity 75.0%; Pred. No. 1.2e+04;

Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCATGGTACAGGTAGAAAAG 20

Db 20 GTATGCTGAGGTATAAAG 1

RESULT 17

US-09-696-791-4514/c  
; Sequence 4514, Application US/09696791  
; Patent No. 6770633

GENERAL INFORMATION:

APPLICANT: Robbins, Joan M.

APPLICANT: Tritz, Richard

TITLE OF INVENTION: RIBOZYME THERAPY FOR THE TREATMENT OF PROLIFERATIVE

FILE REFERENCE: 480124.407

CURRENT FILING DATE: 2000-10-25

NUMBER OF SEQ ID NOS: 4523

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 4514

LENGTH: 21

TYPE: DNA

ORGANISM: Homo sapien

FEATURE:

OTHER INFORMATION: VEGF hammerhead ribozyme recognition site

US-09-696-791-4514

Query Match 54.5%; Score 12; DB 4; Length 21;

Best Local Similarity 75.0%; Pred. No. 1.2e+04;

Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 2 CATGTTACAGGTAGAAAGC 21

Db 21 CATGGTGGAGGTAGAGCAGC 2

RESULT 18

US-09-422-978-6072  
; Sequence 6072, Application US/09422978  
; Patent No. 6537751

GENERAL INFORMATION:

APPLICANT: Cohen, Daniel

APPLICANT: Blumenfeld, Marta

TITLE OF INVENTION: Blallelic markers for use in constructing a high density...

FILE REFERENCE: GENSET.020Cp1

CURRENT FILING DATE: 1999-10-20

EARLIER APPLICATION NUMBER: US 09/422,978

EARLIER FILING DATE: 1999-04-21

EARLIER APPLICATION NUMBER: US 60/109,732

EARLIER FILING DATE: 1998-11-23

EARLIER APPLICATION NUMBER: US 60/082,614

EARLIER FILING DATE: 1998-04-21

NUMBER OF SEQ ID NOS: 11796

SEQ ID NO 6072

LENGTH: 19

TYPE: DNA

ORGANISM: Homo Sapiens

FEATURE:

NAME/KEY: primer\_bind

LOCATION: 1..19

OTHER INFORMATION: upstream amplification primer 99-8748 for SEQ 2138,  
US-09-422-978-6072

Query Match 53.6%; Score 11.8; DB 4; Length 19;

Best Local Similarity 86.7%; Pred. No. 1.5e+04;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAA 19

Db 1 GTTAGAGTTGAAAA 15

RESULT 19

US-08-477-270-27/c  
; Sequence 27, Application US/08477270  
; Patent No. 5629158

GENERAL INFORMATION:

APPLICANT: UHLEN, Mathias

TITLE OF INVENTION: SOLID PHASE DIAGNOSIS OF MEDICAL

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Foley & Lardner

STREET: 1800 Diagonal Road, Suite 500

CITY: Alexandria

STATE: Virginia

COUNTRY: USA

ZIP: 22313-0299

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/477,270

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/261,010

FILING DATE:

APPLICATION NUMBER: US 07/781,157

FILING DATE: 07-NOV-1991

ATTORNEY/AGENT INFORMATION:

NAME: BENT, Stephen A.

REGISTRATION NUMBER: 29,768

REFERENCE/DOCKET NUMBER: 16787/153 DFBC

TELECOMMUNICATION INFORMATION:

TELEPHONE: (703)836-9300

```
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid;
; DESCRIPTION: Synthetic DNA oligonucleotide
; IMMEDIATE SOURCE:
; CLONE: RIT 34
US-08-477-270-27

Query Match 53.6%; Score 11.8; DB 1; Length 20;
Best Local Similarity 86.7%; Pred. No. 1.5e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 TGTTACAGGTAGAAA 18
Db 19 TGGTACAGGCAGAAA 5

RESULT 20
US-09-487-445-98
; Sequence 98, Application US/09487445
; Patent No. 6258600
; GENERAL INFORMATION:
; APPLICANT: Hong Zhang
; TITLE OF INVENTION: ANTISENSE MODULATION OF CASPASE 8 EXPRESSION
; FILE REFERENCE: RTS-0107
; CURRENT APPLICATION NUMBER: US/09/487,445
; CURRENT FILING DATE: 2000-01-19
; NUMBER OF SEQ ID NOS: 176
; SEQ ID NO 98
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-487-445-98

Query Match 53.6%; Score 11.8; DB 3; Length 20;
Best Local Similarity 86.7%; Pred. No. 1.5e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 8 ACAGGTAGAAAAGCC 22
Db 4 AGAGGTAGAGAGCC 18

RESULT 21
US-09-648-520E-29/c
; Sequence 29, Application US/09648520E
; Patent No. 6432649
; GENERAL INFORMATION:
; APPLICANT: Stich, Roger W.
; APPLICANT: Rikihisa, Yasuko
; TITLE OF INVENTION: Methods for Detecting Ehrlichia Canis and Ehrlichia Chaffeensis in Vertebrate and Invertebrate Hosts
; FILE REFERENCE: 22727/04069
; CURRENT APPLICATION NUMBER: US/09/648,520E
; CURRENT FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 51
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 29
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic sequence
US-09-648-520E-29

; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid;
; DESCRIPTION: Synthetic DNA oligonucleotide
; IMMEDIATE SOURCE:
; CLONE: RIT 34
US-08-477-270-27

Query Match 52.7%; Score 11.6; DB 3; Length 19;
Best Local Similarity 77.8%; Pred. No. 1.9e+04;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAAG 20
Db 18 ATACTCCAGGTAGAGAAG 1

RESULT 22
US-09-422-978-4544
; Sequence 4544, Application US/09422978
; Patent No. 6537751
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET 020CP1
; CURRENT APPLICATION NUMBER: US/09/422,978
; CURRENT FILING DATE: 1999-10-20
; EARLIER APPLICATION NUMBER: US 09/298,850
; EARLIER FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 60/109,732
; EARLIER FILING DATE: 1998-11-23
; EARLIER APPLICATION NUMBER: US 60/082,614
; EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 4544
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..19
; OTHER INFORMATION: upstream amplification primer 99-15744 for SEQ 610,
US-09-422-978-4544

Query Match 52.7%; Score 11.6; DB 4; Length 19;
Best Local Similarity 77.8%; Pred. No. 1.9e+04;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 TGTTACAGGTAGAAAAGC 21
Db 2 TGTCATAGTTAGAAAAGC 19

RESULT 23
US-08-985-162-702
; Sequence 702, Application US/08985162
; Patent No. 6057156
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMAIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; TITLE OF INVENTION: FACTOR RECEPTORS
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
```



OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSEQ for Windows 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/985,162  
FILING DATE: 04 December 1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/036,476  
FILING DATE: 31 January 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 230/107  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 702:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-985-162-702

Query Match      51.8%;      Score 11.4;      DB 3;      Length 17;  
Best Local Similarity      61.5%;      Pred. No. 2.3e+04;  
Matches      8;      Conservative      4;      Mismatches      1;      Indels      0;      Gaps      0;

Qy      1      GCATGTTACAGGT 13  
         |||: :|||:  
Db      5      GCAUUUACAGGU 17

## RESULT 24

US-08-985-162-703  
Sequence 703, Application US/08985162  
Patent No. 6057156  
GENERAL INFORMATION:

APPLICANT: Akhtar, Saghir  
APPLICANT: Fell, Patricia  
APPLICANT: McSwiggen, James  
TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT  
TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
TITLE OF INVENTION: FACTOR RECEPTORS  
NUMBER OF SEQUENCES: 1877  
CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSEQ for Windows 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/985,162  
FILING DATE: 04 December 1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/036,476  
FILING DATE: 31 January 1997  
ATTORNEY/AGENT INFORMATION:

NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 230/107  
TELECOMMUNICATION INFORMATION:

TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 703:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-985-162-703

Query Match      51.8%;      Score 11.4;      DB 3;      Length 17;  
Best Local Similarity      61.5%;      Pred. No. 2.3e+04;  
Matches      8;      Conservative      4;      Mismatches      1;      Indels      0;      Gaps      0;

Qy      1      GCATGTTACAGGT 13  
         |||: :|||:  
Db      4      GCAUUUACAGGU 16

## RESULT 25

US-08-985-162-704  
Sequence 704, Application US/08985162  
Patent No. 6057156  
GENERAL INFORMATION:

APPLICANT: Akhtar, Saghir  
APPLICANT: Fell, Patricia  
APPLICANT: McSwiggen, James  
TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT  
TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
TITLE OF INVENTION: FACTOR RECEPTORS  
NUMBER OF SEQUENCES: 1877  
CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSEQ for Windows 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/985,162  
FILING DATE: 04 December 1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/036,476  
FILING DATE: 31 January 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 230/107  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 704:

SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-985-162-704

Query Match      51.8%;      Score 11.4;      DB 3;      Length 17;  
Best Local Similarity      61.5%;      Pred. No. 2.3e+04;  
Matches      8;      Conservative      4;      Mismatches      1;      Indels      0;      Gaps      0;

Qy 1 GCATGTTACAGT 13  
 |||: :|||:  
 Db 3 GCAUUUACAGGU 15

## RESULT 26

US-08-985-162-705  
 ; Sequence 705, Application US/08985162  
 ; Patent No. 6057156  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Akhtar, Saghir  
 ; APPLICANT: Fell, Patricia  
 ; APPLICANT: McSwiggen, James  
 ; TITLE OF INVENTION: ENZYMAIC NUCLEIC ACID TREATMENT  
 ; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
 ; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
 ; TITLE OF INVENTION: FACTOR RECEPTORS  
 ; NUMBER OF SEQUENCES: 1877  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Lyon & Lyon  
 ; STREET: 633 West Fifth Street  
 ; STREET: Suite 4700  
 ; CITY: Los Angeles  
 ; STATE: California  
 ; COUNTRY: U.S.A.  
 ; ZIP: 90071-2066  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
 ; MEDIUM TYPE: storage  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: IBM P.C. DOS 5.0  
 ; SOFTWARE: FastSeq for Windows 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/985,162  
 ; FILING DATE: 04 December 1997  
 ; CLASSIFICATION: 514  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 60/036,476  
 ; FILING DATE: 31 January 1997  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Warburg, Richard J.  
 ; REGISTRATION NUMBER: 32,327  
 ; REFERENCE/DOCKET NUMBER: 230/107  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (213) 489-1600  
 ; TELEFAX: (213) 955-0440  
 ; TELEX: 67-3510  
 ; INFORMATION FOR SEQ ID NO: 705:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 17 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; US-08-985-162-705  
 ; Query Match 51.8%; Score 11.4; DB 3; Length 17;  
 ; Best Local Similarity 61.5%; Pred. No. 2.3e+04;  
 ; Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;  
 ; Qy 1 GCATGTTACAGT 13  
 ; |||: :|||:  
 ; Db 2 GCAUUUACAGGU 14  
 ; RESULT 27  
 ; US-08-584-040-1534  
 ; Sequence 1534, Application US/08584040  
 ; Patent No. 6346398  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pavco, Pamela  
 ; APPLICANT: McSwiggen, James  
 ; APPLICANT: Stinchcomb, Dan T.

; APPLICANT: Escobedo, Jaime  
 ; TITLE OF INVENTION: METHOD AND REAGENT FOR THE  
 ; TITLE OF INVENTION: TREATMENT OF DISEASES OR  
 ; TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS  
 ; TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL  
 ; TITLE OF INVENTION: GROWTH FACTOR  
 ; NUMBER OF SEQUENCES: 8502  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Lyon & Lyon  
 ; STREET: 633 West Fifth Street  
 ; STREET: Suite 4700  
 ; CITY: Los Angeles  
 ; STATE: California  
 ; COUNTRY: U.S.A.  
 ; ZIP: 90071-2066  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
 ; MEDIUM TYPE: storage  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: IBM P.C. DOS 5.0  
 ; SOFTWARE: Word Perfect 5.1  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/584,040  
 ; FILING DATE: January 11, 1996  
 ; CLASSIFICATION: 514  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 60/005,974  
 ; FILING DATE: October 26, 1995  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Warburg, Richard J.  
 ; REGISTRATION NUMBER: 32,327  
 ; REFERENCE/DOCKET NUMBER: 218/064  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (213) 489-1600  
 ; TELEFAX: (213) 955-0440  
 ; TELEX: 67-3510  
 ; INFORMATION FOR SEQ ID NO: 1534:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 17 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; US-08-584-040-1534  
 ; Query Match 51.8%; Score 11.4; DB 3; Length 17;  
 ; Best Local Similarity 69.2%; Pred. No. 2.3e+04;  
 ; Matches 9; Conservative 3; Mismatches 1; Indels 0; Gaps 0;  
 ; Qy 4 TGTTACAGGTAGA 16  
 ; :|: |||: |||:  
 ; Db 5 UGAUACAGGUAGA 17  
 ; RESULT 28  
 ; US-09-371-772B-79  
 ; Sequence 79, Application US/09371772B  
 ; Patent No. 6566127  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
 ; APPLICANT: Pavco, Pam  
 ; APPLICANT: McSwiggen, Jim  
 ; APPLICANT: Stinchcomb, Dan  
 ; APPLICANT: Escobedo, Jaime  
 ; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
 ; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor  
 ; FILE REFERENCE: MBH00,876-J (237/198)  
 ; CURRENT APPLICATION NUMBER: US/09/371,772B  
 ; CURRENT FILING DATE: 1999-08-10  
 ; PRIOR APPLICATION NUMBER: US 60/005,974  
 ; PRIOR FILING DATE: 1995-10-26  
 ; PRIOR APPLICATION NUMBER: US 08/584,040  
 ; PRIOR FILING DATE: 1996-01-08  
 ; NUMBER OF SEQ ID NOS: 14225

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COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSeq for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/401,063
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/985,162
FILING DATE: 04 December 1997
APPLICATION NUMBER: 60/036,476
FILING DATE: 31 January 1997
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 230/107
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 702:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-401-063-702

Query Match 51.8%; Score 11.4; DB 4; Length 17;
Best Local Similarity 61.5%; Pred. NO. 2.3e+04;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCATGTTACAGT 13
DB 5 GCAUUUUACAGU 17
||||:|||||:

RESULT 31
US-09-401-063-703
; Sequence 703, Application US/09401063
; Patent No. 6623962
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; TITLE OF INVENTION: FACTOR RECEPTORS
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/401,063
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/985,162

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;
; FILING DATE: 04 December 1997
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 703:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-401-063-703

Query Match 51.8%; Score 11.4; DB 4; Length 17;
Best Local Similarity 61.5%; Pred. No. 2.3e+04;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGT 13
Db 4 GCAUUUACAGGU 16

RESULT 32
US-09-401-063-704
; Sequence 704, Application US/09401063
; Patent No. 6623962
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/401,063
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/985,162
; FILING DATE: 04 December 1997
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 704:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-401-063-704

Query Match 51.8%; Score 11.4; DB 4; Length 17;
Best Local Similarity 61.5%; Pred. No. 2.3e+04;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGT 13
Db 4 GCAUUUACAGGU 16

RESULT 33
US-09-401-063-705
; Sequence 705, Application US/09401063
; Patent No. 6623962
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/401,063
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/985,162
; FILING DATE: 04 December 1997
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 705:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-401-063-705

Query Match 51.8%; Score 11.4; DB 4; Length 17;
Best Local Similarity 61.5%; Pred. No. 2.3e+04;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGT 13
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; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-981-988A-27

Query Match      51.8%; Score 11.4; DB 3; Length 18;
Best Local Similarity 92.3%; Pred. No. 2.3e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      10 AGGTAGAAAAGCC 22
Db      3 AGGTAGACAGCC 15

RESULT 36
US-09-531-000-7
; Sequence 7, Application US/09531000
; Patent No. 6461810
; GENERAL INFORMATION:
; APPLICANT: JOHNSON, Marion D.
; APPLICANT: FRESCO, Jacques R.
; TITLE OF INVENTION: TRIPLEX IN-SITU HYBRIDIZATION
; FILE REFERENCE: 2448-103
; CURRENT APPLICATION NUMBER: US/09/531,000
; CURRENT FILING DATE: 2000-09-08
; PRIOR APPLICATION NUMBER: PCT/US98/23765
; PRIOR FILING DATE: 1998-11-10
; PRIOR APPLICATION NUMBER: 60/064,997
; PRIOR FILING DATE: 1997-11-10
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target
; OTHER INFORMATION: sequences
US-09-531-000-7

Query Match      51.8%; Score 11.4; DB 3; Length 19;
Best Local Similarity 92.3%; Pred. No. 2.3e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      8 ACAGGTAGAAAAG 20
Db      1 AAAGGTAGAAAAG 13

RESULT 37
US-09-531-000-34
; Sequence 34, Application US/09531000
; Patent No. 6461810
; GENERAL INFORMATION:
; APPLICANT: JOHNSON, Marion D.
; APPLICANT: FRESCO, Jacques R.
; TITLE OF INVENTION: TRIPLEX IN-SITU HYBRIDIZATION
; FILE REFERENCE: 2448-103
; CURRENT APPLICATION NUMBER: US/09/531,000
; CURRENT FILING DATE: 2000-09-08
; PRIOR APPLICATION NUMBER: PCT/US98/23765
; PRIOR FILING DATE: 1998-11-10
; PRIOR APPLICATION NUMBER: 60/064,997
; PRIOR FILING DATE: 1997-11-10
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target
; OTHER INFORMATION: sequences
US-09-531-000-34
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```

|||: :|||:
2 GCAUUUACAGGU 14

US-09-685-664B-79
; Sequence 79, Application US/09685664B
; Patent No. 6818447
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for Treatment of Diseases or Conditions Related to Vascular Endothelial Growth Factor Receptor
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MBH00-876-K (400/021)
; CURRENT APPLICATION NUMBER: US/09/685,664B
; CURRENT FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; PRIOR APPLICATION NUMBER: US 09/371,772
; PRIOR FILING DATE: 1999-08-10
; NUMBER OF SEQ ID NOS: 8231
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 79
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-685-664B-79

Query Match      51.8%; Score 11.4; DB 4; Length 17;
Best Local Similarity 69.2%; Pred. No. 2.3e+04;
Matches 9; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy      4 TGTTACAGGTAGA 16
Db      5 UGAUACAGGUAGA 17

RESULT 35
US-08-981-988A-27
; Sequence 27, Application US/08981988A
; Patent No. 6337194
; GENERAL INFORMATION:
; APPLICANT: Vittal Mallya Scientific Research Foundation
; APPLICANT: The University of Leicester
; TITLE OF INVENTION: Insulin
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: VITTAL MALLYA SCIENTIFIC RESEARCH FOUNDATION
; STREET: K. R. ROAD
; CITY: BANGALORE
; COUNTRY: INDIA
; ZIP: 560 004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION NUMBER: US/08/981,988A
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9513967.1
; FILING DATE: 08-JUL-1995
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
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Query Match 51.8%; Score 11.4; DB 3; Length 19;  
Best Local Similarity 92.3%; Pred. No. 2.3e+04; Indels 0; Gaps 0;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 8 ACAGGTAGAAAAG 20  
| | | | | | | | | |  
Db 1 AAAGGTAGAAAAG 13

RESULT 38  
US-09-531-000-38  
; Sequence 38, Application US/09531000  
; Patent No. 6461810  
; GENERAL INFORMATION:  
; APPLICANT: JOHNSON, Marion D.  
; APPLICANT: FRESCO, Jacques R.  
; TITLE OF INVENTION: TRIPLEX IN-SITU HYBRIDIZATION  
; FILE REFERENCE: 2448-103  
; CURRENT APPLICATION NUMBER: US/09/531,000  
; CURRENT FILING DATE: 2000-09-08  
; PRIOR APPLICATION NUMBER: PCT/US98/23765  
; PRIOR FILING DATE: 1998-11-10  
; PRIOR APPLICATION NUMBER: 60/064,997  
; PRIOR FILING DATE: 1997-11-10  
; NUMBER OF SEQ ID NOS: 77  
; SOFTWARE: Patent in Ver. 2.1  
; SEQ ID NO 38  
; LENGTH: 19  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Target  
; OTHER INFORMATION: sequences  
US-09-531-000-38

Query Match 51.8%; Score 11.4; DB 3; Length 19;  
Best Local Similarity 92.3%; Pred. No. 2.3e+04; Indels 0; Gaps 0;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 8 ACAGGTAGAAAAG 20  
| | | | | | | | | |  
Db 1 AAAGGTAGAAAAG 13

RESULT 39  
US-09-422-978-6684  
; Sequence 6684, Application US/09422978  
; Patent No. 6537751  
; GENERAL INFORMATION:  
; APPLICANT: Cohen, Daniel  
; APPLICANT: Blumenfeld, Marta  
; APPLICANT: Chumakov, Ilya  
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...  
; FILE REFERENCE: GENSET 020CP1  
; CURRENT APPLICATION NUMBER: US/09/422,978  
; CURRENT FILING DATE: 1999-10-20  
; EARLIER APPLICATION NUMBER: US 09/298,850  
; EARLIER FILING DATE: 1999-04-21  
; EARLIER APPLICATION NUMBER: US 60/109,732  
; EARLIER FILING DATE: 1998-11-23  
; EARLIER APPLICATION NUMBER: US 60/082,614  
; EARLIER FILING DATE: 1998-04-21  
; NUMBER OF SEQ ID NOS: 11796  
; SEQ ID NO 6684  
; LENGTH: 19  
; TYPE: DNA  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; NAME/KEY: primer\_bind  
; LOCATION: 1..19  
; OTHER INFORMATION: upstream amplification primer 99-16772 for SEQ 2750,  
US-09-422-978-6684

Query Match 51.8%; Score 11.4; DB 4; Length 19;  
Best Local Similarity 92.3%; Pred. No. 2.3e+04; Indels 0; Gaps 0;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 8 ACAGGTAGAAAAG 20  
| | | | | | | | | |  
Db 6 ACAGGAAGAAAAG 18

RESULT 40  
US-08-882-046-89/c  
; Sequence 89, Application US/08882046  
; Patent No. 6136952  
; GENERAL INFORMATION:  
; APPLICANT: Li, Linheng  
; APPLICANT: Hood, Leroy  
; APPLICANT: Krantz, Ian D.  
; APPLICANT: Spinner, Nancy B.  
; TITLE OF INVENTION: Human Jagged Polypeptide, Encoding  
; TITLE OF INVENTION: Nucleic Acids and Methods of Use  
; NUMBER OF SEQUENCES: 110  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Campbell & Flores LLP  
; STREET: 4370 La Jolla Village Drive, Suite 700  
; CITY: San Diego  
; STATE: California  
; COUNTRY: USA  
; ZIP: 92122  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/882,046  
; FILING DATE: 25-JUN-1997  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Campbell, Cathryn A.  
; REGISTRATION NUMBER: 31,815  
; REFERENCE/DOCKET NUMBER: P-UW 2637  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (619) 535-9001  
; TELEFAX: (619) 535-8949  
; INFORMATION FOR SEQ ID NO: 89:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-882-046-89

Query Match 51.8%; Score 11.4; DB 3; Length 20;  
Best Local Similarity 92.3%; Pred. No. 2.4e+04; Indels 0; Gaps 0;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAG 15  
| | | | | | | | | |  
Db 17 ATGTTACAGGTG 5

Search completed: August 12, 2005, 09:56:34  
Job time : 97 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 08:55:07 ; Search time 371 Seconds  
(without alignments)

**Title:** US-09-743-825-7

Perfect score:

Sequence: 1 qcatgttacaggtagaaaagcc 22

Scoring table:

Gapop 10.0<sup>\*</sup>, Gapext 1.0

Searched: 7305758 seqs, 324068913 residues

Total number of hits satisfying chosen parameters: 2085186

Minimum DB seq length: 0

Maximum DB seq length:	22
Maximum DB seq length:	22

Post-processing: Minimum Match 0%

Maximum Match 100%

## Listing first 100 summaries

Database : Published Applications NA: \*

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3: /cgn2_6/prodata/2/pubpna/us06_NEW_PUB.seq.*
4: /cgn2_6/prodata/2/pubpna/us06_PUBCOMB.seq.*
5: /cgn2_6/prodata/2/pubpna/us07_NEW_PUB.seq.*
6: /cgn2_6/prodata/2/pubpna/PCTUS_PUBCOMB.seq.*
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11: /cgn2_6/prodata/2/pubpna/us09C_PUBCOMB.seq.*
12: /cgn2_6/prodata/2/pubpna/us09_NEW_PUB.seq.*
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18: /cgn2_6/prodata/2/pubpna/us10F_PUBCOMB.seq.*
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20: /cgn2_6/prodata/2/pubpna/us10H_PUBCOMB.seq.*
21: /cgn2_6/prodata/2/pubpna/us10I_PUBCOMB.seq.*
22: /cgn2_6/prodata/2/pubpna/us10_NEW_PUB.seq.*
23: /cgn2_6/prodata/2/pubpna/us11A_PUBCOMB.seq.*
24: /cgn2_6/prodata/2/pubpna/us11_NEW_PUB.seq.*
25: /cgn2_6/prodata/2/pubpna/us60_NEW_PUB.seq.*
26: /cgn2_6/prodata/2/pubpna/us60_PUBCOMB.seq.*

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**Pred. No.** is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
C 1	15.2	69.1	20	17	US-10-289-762-5333	Sequence 5333, Appl
	13.2	60.0	21	14	US-10-210-296-50	Sequence 50, Appl
	13.2	60.0	21	17	US-10-449-462-50	Sequence 50, Appl
	13.2	60.0	21	17	US-10-449-462-50	Sequence 50, Appl
C 4	13.2	60.0	21	22	US-10-448-948-50	Sequence 50, Appl
	12.8	58.2	19	10	US-09-988-626-157	Sequence 157, Appl
C 5	12.8	58.2	19	10	US-09-988-626-157	Sequence 157, Appl
C 6	12.8	58.2	19	10	US-09-988-687-157	Sequence 157, Appl
C 7	12.8	58.2	19	10	US-09-988-686-157	Sequence 157, Appl





Qy 4 TGTTACAGGTAGAAAAGC 21  
 Db 2 TGGTACAGCAAGAAAAGC 19

RESULT 5

US-09-988-626-157/c  
 ; Sequence 157, Application US/09988626  
 ; Publication No. US20030044959A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Tavtigian, Sean V.  
 ; APPLICANT: Teng, David H.F.  
 ; APPLICANT: Simard, Jacques  
 ; APPLICANT: Rommens, Johanna M.  
 ; APPLICANT: Myriad Genetics, Inc.  
 ; TITLE OF INVENTION: Chromosome 17p-Linked Prostate Cancer Susceptibility  
 ; TITLE OF INVENTION: Gene and a Paralog and Orthologous Genes  
 ; FILE REFERENCE: 2318-258  
 ; CURRENT APPLICATION NUMBER: US/09/988,626  
 ; CURRENT FILING DATE: 2001-11-20  
 ; PRIOR APPLICATION NUMBER: 09/564,805  
 ; PRIOR FILING DATE: 2000-05-05  
 ; PRIOR APPLICATION NUMBER: US 60/107,468  
 ; PRIOR FILING DATE: 1998-11-06  
 ; PRIOR APPLICATION NUMBER: 09/434,382  
 ; PRIOR FILING DATE: 1999-11-05  
 ; NUMBER OF SEQ ID NOS: 240  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 157  
 ; LENGTH: 19  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-988-626-157

Query Match 58.2%; Score 12.8; DB 10; Length 19;  
 Best Local Similarity 87.5%; Pred. No. 2.6e+04;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAA 18  
 Db 19 ATGTCACAGGCAGAAA 4

RESULT 6

US-09-988-687-157/c  
 ; Sequence 157, Application US/09988687  
 ; Publication No. US20030045704A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Tavtigian, Sean V.  
 ; APPLICANT: Teng, David H.F.  
 ; APPLICANT: Simard, Jacques  
 ; APPLICANT: Rommens, Johanna M.  
 ; APPLICANT: Myriad Genetics, Inc.  
 ; TITLE OF INVENTION: Chromosome 17p-Linked Prostate Cancer Susceptibility  
 ; TITLE OF INVENTION: Gene and a Paralog and Orthologous Genes  
 ; FILE REFERENCE: 2318-258  
 ; CURRENT APPLICATION NUMBER: US/09/988,687  
 ; CURRENT FILING DATE: 2001-11-20  
 ; PRIOR APPLICATION NUMBER: 09/564,805  
 ; PRIOR FILING DATE: 2000-05-05  
 ; PRIOR APPLICATION NUMBER: US 60/107,468  
 ; PRIOR FILING DATE: 1998-11-06  
 ; PRIOR APPLICATION NUMBER: 09/434,382  
 ; PRIOR FILING DATE: 1999-11-05  
 ; NUMBER OF SEQ ID NOS: 240  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 157  
 ; LENGTH: 19  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-988-687-157

Query Match 58.2%; Score 12.8; DB 10; Length 19;  
 Best Local Similarity 87.5%; Pred. No. 2.6e+04;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAA 18  
 Db 19 ATGTCACAGGCAGAAA 4

RESULT 7

US-09-988-686-157/c  
 ; Sequence 157, Application US/09988686  
 ; Publication No. US20030120052A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Tavtigian, Sean V.  
 ; APPLICANT: Teng, David H.F.  
 ; APPLICANT: Simard, Jacques  
 ; APPLICANT: Rommens, Johanna M.  
 ; APPLICANT: Myriad Genetics, Inc.  
 ; TITLE OF INVENTION: Chromosome 17p-Linked Prostate Cancer Susceptibility  
 ; TITLE OF INVENTION: Gene and a Paralog and Orthologous Genes  
 ; FILE REFERENCE: 2318-258  
 ; CURRENT APPLICATION NUMBER: US/09/988,686  
 ; CURRENT FILING DATE: 2001-11-20  
 ; PRIOR APPLICATION NUMBER: 09/564,805  
 ; PRIOR FILING DATE: 2000-05-05  
 ; PRIOR APPLICATION NUMBER: US 60/107,468  
 ; PRIOR FILING DATE: 1998-11-06  
 ; PRIOR APPLICATION NUMBER: 09/434,382  
 ; PRIOR FILING DATE: 1999-11-05  
 ; NUMBER OF SEQ ID NOS: 240  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 157  
 ; LENGTH: 19  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-988-686-157

Query Match 58.2%; Score 12.8; DB 10; Length 19;  
 Best Local Similarity 87.5%; Pred. No. 2.6e+04;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAA 18  
 Db 19 ATGTCACAGGCAGAAA 4

RESULT 8

US-09-906-158-75/c  
 ; Sequence 75, Application US/09906158  
 ; Publication No. US20030078217A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Brett P. Monia  
 ; APPLICANT: Susan M. Freier  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF TRANSFORMING GROWTH FACTOR-BETA 3 EXPRESSION  
 ; FILE REFERENCE: RTS-0257  
 ; CURRENT APPLICATION NUMBER: US/09/906,158  
 ; CURRENT FILING DATE: 2001-07-14  
 ; NUMBER OF SEQ ID NOS: 168  
 ; SEQ ID NO 75  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 ; US-09-906-158-75

Query Match 58.2%; Score 12.8; DB 10; Length 20;  
 Best Local Similarity 87.5%; Pred. No. 2.6e+04;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TACAGGTAGAAAAGCC 22  
 Db 19 ATGTCACAGGCAGAAA 4

```
Db      18 TACAGGGAGAAATCC 3

RESULT 9
US-10-388-263-524/c
; Sequence 524, Application US/10388263
; Publication No. US20030228597A1
; GENERAL INFORMATION:
; APPLICANT: Cowsert, Lex M.
; APPLICANT: Baker, Brenda F.
; APPLICANT: McNeil, John
; APPLICANT: Freier, Susan M.
; APPLICANT: Sasnor, Henri M.
; APPLICANT: Brooks, Douglas G.
; APPLICANT: Ohashi, Cara
; APPLICANT: Wyatt, Jacqueline R.
; APPLICANT: Borchers, Alexander
; APPLICANT: Vickers, Timothy A.
; TITLE OF INVENTION: IDENTIFICATION OF GENETIC TARGETS FOR
; TITLE OF INVENTION: MODULATION BY OLIGONUCLEOTIDES AND
; FILE REFERENCE: ISIS-4503
; CURRENT APPLICATION NUMBER: US/10/388,263
; CURRENT FILING DATE: 2003-03-12
; NUMBER OF SEQ ID NOS: 947
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 524
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-388-263-524

Query Match      58.2%; Score 12.8; DB 17; Length 20;
Best Local Similarity 87.5%; Pred. No. 2.6e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      7 TACAGGTAGAAAAGCC 22
      ||||| ||||| ||
Db      18 TACAGGGAGAAATCC 3

RESULT 10
US-10-388-360-230/c
; Sequence 230, Application US/10388360
; Publication No. US20030225528A1
; GENERAL INFORMATION:
; APPLICANT: GENOMIC HEALTH
; APPLICANT: Baker, Joffre B.
; APPLICANT: Cronin, Maureen T.
; APPLICANT: Kiefer, Michael C.
; APPLICANT: Shak, Steve
; APPLICANT: Walker, Michael Graham
; TITLE OF INVENTION: GENE EXPRESSION PROFILING IN BIOPSIED TUMOR TISSUES
; FILE REFERENCE: 39740-000IUS
; CURRENT APPLICATION NUMBER: US/10/388,360
; CURRENT FILING DATE: 2003-03-12
; PRIOR APPLICATION NUMBER: US 60/412,049
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: US 60/364,890
; PRIOR FILING DATE: 2002-03-13
; NUMBER OF SEQ ID NOS: 384
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 230
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-388-360-230

Query Match      58.2%; Score 12.8; DB 17; Length 21;
Best Local Similarity 87.5%; Pred. No. 2.6e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Db      18 TACAGGGAGAAATCC 3

RESULT 11
US-10-758-307-191/c
; Sequence 191, Application US/10758307
; Publication No. US20040209290A1
; GENERAL INFORMATION:
; APPLICANT: GENOMIC HEALTH, INC.
; APPLICANT: RUSH UNIVERSITY MEDICAL CENTER
; APPLICANT: Cobleigh, Melody
; APPLICANT: Shak, Steven
; APPLICANT: Baker, Joffre
; APPLICANT: Cronin, Maureen
; TITLE OF INVENTION: GENE EXPRESSION MARKERS FOR BREAST
; FILE REFERENCE: 39740/0008 US
; CURRENT APPLICATION NUMBER: US/10/758,307
; CURRENT FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 60/440,861
; PRIOR FILING DATE: 2003-01-15
; NUMBER OF SEQ ID NOS: 440
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 191
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: reverse primer
US-10-758-307-191

Query Match      58.2%; Score 12.8; DB 20; Length 21;
Best Local Similarity 87.5%; Pred. No. 2.6e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      7 TACAGGTAGAAAAGCC 22
      ||||| ||||| ||
Db      21 TTCTGGTAGAAAAGCC 6

RESULT 12
US-10-690-880-48/c
; Sequence 48, Application US/10690880
; Publication No. US20050014165A1
; GENERAL INFORMATION:
; APPLICANT: LEE, NANCY M
; APPLICANT: CHEN, LING C
; TITLE OF INVENTION: BIOMARKER PANEL FOR COLORECTAL CANCER
; FILE REFERENCE: CPMC-010000US1
; CURRENT APPLICATION NUMBER: US/10/690,880
; CURRENT FILING DATE: 2003-10-22
; NUMBER OF SEQ ID NOS: 88
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 48
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: primer
US-10-690-880-48

Query Match      58.2%; Score 12.8; DB 21; Length 21;
Best Local Similarity 87.5%; Pred. No. 2.6e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      7 TACAGGTAGAAAAGCC 22
      ||||| ||||| ||
Db      21 TTCTGGTAGAAAAGCC 6
```

RESULT 13  
US-10-714-195-188/c  
; Sequence 188, Application US/10714195  
; Publication No. US20050019785A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Joffre  
; APPLICANT: Cronin, Maureen  
; APPLICANT: Shak, Steve  
; APPLICANT: Baselga, Jose  
; TITLE OF INVENTION: GENE EXPRESSION PROFILING OF EGFR  
; FILE REFERENCE: 39740-0005  
; CURRENT FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/427090  
; PRIOR FILING DATE: 2003-11-15  
; NUMBER OF SEQ ID NOS: 372  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 188  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: primer  
US-10-714-195-188

Query Match 58.2%; Score 12.8; DB 21; Length 21;  
Best Local Similarity 87.5%; Pred. No. 2.6e+04;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TACAGGTAGAAAAGCC 22  
Db 21 TTCTGGTAGAAAAGCC 6

RESULT 14  
US-10-852-797-80/c  
; Sequence 80, Application US/10852797  
; Publication No. US20050064455A1  
; GENERAL INFORMATION:  
; APPLICANT: Genomic Health, Inc.  
; APPLICANT: Baker, Joffre  
; APPLICANT: Miller, Kathy D.  
; APPLICANT: Shak, Steven  
; APPLICANT: Sledge, George  
; APPLICANT: Soule, Sharon  
; TITLE OF INVENTION: Gene Expression Markers for Predicting  
; Response to Chemotherapy  
; FILE REFERENCE: 39740-0010  
; CURRENT APPLICATION NUMBER: US/10/852,797  
; CURRENT FILING DATE: 2004-05-24  
; PRIOR APPLICATION NUMBER: 60/473,970  
; PRIOR FILING DATE: 2003-05-28  
; NUMBER OF SEQ ID NOS: 372  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 80  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: reverse primer  
US-10-852-797-80

Query Match 58.2%; Score 12.8; DB 21; Length 21;  
Best Local Similarity 87.5%; Pred. No. 2.6e+04;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TACAGGTAGAAAAGCC 22  
Db 21 TTCTGGTAGAAAAGCC 6

RESULT 15  
US-10-831-901A-12579/c  
; Sequence 12579, Application US/10831901A  
; Publication No. US20050100885A1  
; GENERAL INFORMATION:  
; APPLICANT: Crooke, Stanley T.  
; APPLICANT: Ecker, David J.  
; APPLICANT: Sampath, Rangarajan  
; APPLICANT: Freier, Susan M.  
; APPLICANT: Massire, Christian  
; APPLICANT: Hofstadler, Steven A.  
; APPLICANT: Lowery, Kristin Samnes  
; APPLICANT: Swayze, Eric  
; APPLICANT: Baker, Brenda F.  
; APPLICANT: Bennett, C. Frank  
; TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe  
; Acute Respiratory Syndrome (SARS)  
; FILE REFERENCE: ISIS0083-100 (BIOL0008US)  
; CURRENT APPLICATION NUMBER: US/10/831,901A  
; CURRENT FILING DATE: 2004-04-26  
; PRIOR APPLICATION NUMBER: 60/466,426  
; PRIOR FILING DATE: 2003-04-28  
; PRIOR APPLICATION NUMBER: 60/468,562  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/467,770  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: 60/468,627  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/477,637  
; PRIOR FILING DATE: 2003-06-10  
; PRIOR APPLICATION NUMBER: 60/483,579  
; PRIOR FILING DATE: 2003-06-27  
; NUMBER OF SEQ ID NOS: 30063  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 12579  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense compound  
US-10-831-901A-12579

Query Match 57.3%; Score 12.6; DB 21; Length 20;  
Best Local Similarity 78.9%; Pred. No. 3.2e+04;  
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 TGTTACAGGTAGAAAAGCC 22  
Db 19 TGTTACAGCTCTAAGAGCC 1

RESULT 16  
US-10-831-901A-12580/c  
; Sequence 12580, Application US/10831901A  
; Publication No. US20050100885A1  
; GENERAL INFORMATION:  
; APPLICANT: Crooke, Stanley T.  
; APPLICANT: Ecker, David J.  
; APPLICANT: Sampath, Rangarajan  
; APPLICANT: Freier, Susan M.  
; APPLICANT: Massire, Christian  
; APPLICANT: Hofstadler, Steven A.  
; APPLICANT: Lowery, Kristin Samnes  
; APPLICANT: Swayze, Eric  
; APPLICANT: Baker, Brenda F.  
; APPLICANT: Bennett, C. Frank  
; TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe  
; Acute Respiratory Syndrome (SARS)  
; FILE REFERENCE: ISIS0083-100 (BIOL0008US)  
; CURRENT APPLICATION NUMBER: US/10/831,901A  
; CURRENT FILING DATE: 2004-04-26  
; PRIOR APPLICATION NUMBER: 60/466,426  
; PRIOR FILING DATE: 2003-04-28

; PRIOR APPLICATION NUMBER: 60/468,562  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/467,770  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: 60/468,627  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/477,637  
; PRIOR FILING DATE: 2003-06-10  
; PRIOR APPLICATION NUMBER: 60/483,579  
; PRIOR FILING DATE: 2003-06-27  
; NUMBER OF SEQ ID NOS: 30063  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 12580  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense compound  
US-10-831-901A-12580

Query Match 57.3%; Score 12.6; DB 21; Length 20;  
Best Local Similarity 78.9%; Pred. No. 3.2e+04;  
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 TGTTCAGGTAGAAAGCC 22  
|||||  
Db 20 TGTTCAGCTCTAAGAGCC 2

RESULT 17  
US-10-883-218-177/c  
; Sequence 177, Application US/10883218  
; Publication No. US20050124567A1  
; GENERAL INFORMATION:  
; APPLICANT: Sirna Therapeutics, Inc.  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of TRPM7 Gene Expression  
; TITLE OF INVENTION: Using Short Interfering Nucleic Acid (siNA)  
; FILE REFERENCE: 400/195 (MBHB04-535)  
; CURRENT APPLICATION NUMBER: US/10/883,218  
; CURRENT FILING DATE: 2004-07-01  
; PRIOR APPLICATION NUMBER: PCT/US04/16390  
; PRIOR FILING DATE: 2003-05-24  
; PRIOR APPLICATION NUMBER: US 10/826,966  
; PRIOR FILING DATE: 2004-04-16  
; PRIOR APPLICATION NUMBER: US 10/757,803  
; PRIOR FILING DATE: 2004-01-14  
; PRIOR APPLICATION NUMBER: US 10/720,448  
; PRIOR FILING DATE: 2003-11-24  
; PRIOR APPLICATION NUMBER: US 10/693,059  
; PRIOR FILING DATE: 2003-10-23  
; PRIOR APPLICATION NUMBER: PCT/US03/05346  
; PRIOR FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: PCT/US03/05028  
; PRIOR FILING DATE: 2003-05-23  
; PRIOR APPLICATION NUMBER: US 10/427,160  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: PCT/US03/05346  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 930  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 177  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense  
US-10-883-218-177

Query Match 56.4%; Score 12.4; DB 22; Length 19;  
Best Local Similarity 92.9%; Pred. No. 4e+04;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 6 TTACAGGTAGAAAA 19  
|||||  
Db 15 TTACAGCTAGAAAA 2

RESULT 18  
US-10-883-218-579  
; Sequence 579, Application US/10883218  
; Publication No. US20050124567A1  
; GENERAL INFORMATION:  
; APPLICANT: Sirna Therapeutics, Inc.  
; APPLICANT: Haerberli, Peter  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of TRPM7 Gene Expression  
; TITLE OF INVENTION: Using Short Interfering Nucleic Acid (siNA)  
; FILE REFERENCE: 400/195 (MBHB04-535)  
; CURRENT APPLICATION NUMBER: US/10/883,218  
; CURRENT FILING DATE: 2004-07-01  
; PRIOR APPLICATION NUMBER: PCT/US04/16390  
; PRIOR FILING DATE: 2003-05-24  
; PRIOR APPLICATION NUMBER: US 10/826,966  
; PRIOR FILING DATE: 2004-04-16  
; PRIOR APPLICATION NUMBER: US 10/757,803  
; PRIOR FILING DATE: 2004-01-14  
; PRIOR APPLICATION NUMBER: US 10/720,448  
; PRIOR FILING DATE: 2003-11-24  
; PRIOR APPLICATION NUMBER: US 10/693,059  
; PRIOR FILING DATE: 2003-10-23  
; PRIOR APPLICATION NUMBER: US 10/444,853  
; PRIOR FILING DATE: 2003-05-23  
; PRIOR APPLICATION NUMBER: US 10/427,160  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: PCT/US03/05346  
; PRIOR FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: PCT/US03/05028  
; PRIOR FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: US 60/358,580  
; PRIOR FILING DATE: 2002-02-20  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 930  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 579  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region  
US-10-883-218-579

Query Match 56.4%; Score 12.4; DB 22; Length 19;  
Best Local Similarity 71.4%; Pred. No. 4e+04;  
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;  
Qy 6 TTACAGGTAGAAAA 19  
|||||  
Db 5 UTACAGCTAGAAAA 18

RESULT 19  
US-10-219-834-44  
; Sequence 44, Application US/10219834  
; Publication No. US20030096751A1  
; GENERAL INFORMATION:  
; APPLICANT: Bristol-Myers Squibb Company  
; TITLE OF INVENTION: G-PROTEIN COUPLED RECEPTOR POLYNUCLEOTIDES AND METHODS OF USE THE

; FILE REFERENCE: D0191 NP  
; CURRENT APPLICATION NUMBER: US/10/219,834  
; CURRENT FILING DATE: 2002-08-15  
; PRIOR APPLICATION NUMBER: US 60/313,658

;  
; PRIOR FILING DATE: 2001-08-20  
; PRIOR APPLICATION NUMBER: US 60/340,703  
; PRIOR FILING DATE: 2001-10-30  
; PRIOR APPLICATION NUMBER: US 60/318,675  
; PRIOR FILING DATE: 2001-09-12  
; PRIOR APPLICATION NUMBER: US 60/355,596  
; PRIOR FILING DATE: 2002-02-06  
; PRIOR APPLICATION NUMBER: US 60/333,417  
; PRIOR FILING DATE: 2001-11-26  
; PRIOR APPLICATION NUMBER: US 60/338,367  
; PRIOR FILING DATE: 2001-12-06  
; NUMBER OF SEQ ID NOS: 192  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 44  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-219-834-44

Query Match 56.4%; Score 12.4; DB 14; Length 20;  
Best Local Similarity 92.9%; Pred. No. 4.1e+04;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 CAGGTAGAAAAGCC 22  
|||||  
Db 2 CAGGAGAAAAGCC 15

RESULT 20  
US-10-436-715-92  
; Sequence 92, Application US/10436715  
; Publication No. US20040018976A1  
; GENERAL INFORMATION:  
; APPLICANT: Bristol-Myers Squibb Company  
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING NOVEL HUMAN G-PROTEIN COUPLED RECEPTORS,  
; FILE REFERENCE: D0262 NP  
; CURRENT APPLICATION NUMBER: US/10/436,715  
; CURRENT FILING DATE: 2003-05-13  
; PRIOR APPLICATION NUMBER: U.S. 60/380,336  
; PRIOR FILING DATE: 2002-05-14  
; NUMBER OF SEQ ID NOS: 471  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 92  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-436-715-92

Query Match 56.4%; Score 12.4; DB 17; Length 20;  
Best Local Similarity 92.9%; Pred. No. 4.1e+04;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 CAGGTAGAAAAGCC 22  
|||||  
Db 2 CAGGAGAAAAGCC 15

RESULT 21  
US-10-349-143-4779  
; Sequence 4779, Application US/10349143  
; Publication No. US2004000584A1  
; GENERAL INFORMATION:  
; APPLICANT: Blumenfeld, Marta  
; APPLICANT: Chumakov, Ilya  
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...  
; FILE REFERENCE: GENSET.020CPI  
; CURRENT APPLICATION NUMBER: US/10/349,143  
; CURRENT FILING DATE: 2003-01-21  
; PRIOR APPLICATION NUMBER: US/09/422,978  
; PRIOR FILING DATE: 1999-10-20  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298,850

;  
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109,732  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082,614  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21  
; NUMBER OF SEQ ID NOS: 11796  
; SEQ ID NO 4779  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; NAME/KEY: primer\_bind  
; LOCATION: 1..18  
; OTHER INFORMATION: upstream amplification primer 99-17762 for SEQ 845,  
US-10-349-143-4779

Query Match 55.5%; Score 12.2; DB 17; Length 18;  
Best Local Similarity 82.4%; Pred. No. 5e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TGTTCAGGTAGAAAAG 20  
|||||  
Db 1 TGTGAGGTAGAGAAG 17

RESULT 22  
US-10-922-626-197/c  
; Sequence 197, Application US/10922626  
; Publication No. US20050159380A1  
; GENERAL INFORMATION:  
; APPLICANT: Sirna Therapeutics  
; APPLICANT: Gueriolini, Roberto  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Angiopoietin Gene  
; FILE REFERENCE: 400/226 (MBHB04-673)  
; CURRENT APPLICATION NUMBER: US/10/922,626  
; CURRENT FILING DATE: 2004-08-19  
; PRIOR APPLICATION NUMBER: PCT/US04/16390  
; PRIOR FILING DATE: 2004-05-24  
; PRIOR APPLICATION NUMBER: US 10/826,966  
; PRIOR FILING DATE: 2004-04-16  
; PRIOR APPLICATION NUMBER: PCT/US04/13456  
; PRIOR FILING DATE: 2004-04-30  
; PRIOR APPLICATION NUMBER: US 10/780,447  
; PRIOR FILING DATE: 2004-02-13  
; PRIOR APPLICATION NUMBER: US 60/292,217  
; PRIOR FILING DATE: 2001-05-18  
; PRIOR APPLICATION NUMBER: US 60/362,016  
; PRIOR FILING DATE: 2002-03-06  
; PRIOR APPLICATION NUMBER: US 60/363,893  
; PRIOR FILING DATE: 2001-07-20  
; PRIOR APPLICATION NUMBER: US 60/311,865  
; PRIOR FILING DATE: 2001-08-13  
; PRIOR APPLICATION NUMBER: US 10/727,780  
; PRIOR FILING DATE: 2003-12-03  
; PRIOR APPLICATION NUMBER: US 60/543,480  
; PRIOR FILING DATE: 2004-02-10  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 686  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 197  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense  
US-10-922-626-197

Query Match 55.5%; Score 12.2; DB 22; Length 19;  
Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 6 TTACAGGTAGAAAAGCC 22  
| | | | | | | | | |  
Db 19 TTACAGGCAGAGAAGAC 3

## RESULT 23

US-10-922-626-438  
; Sequence 436, Application US/10922626  
; Publication No. US20050159380A1  
; GENERAL INFORMATION:  
; APPLICANT: Sirna Therapeutics  
; APPLICANT: Guerciolini, Roberto  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Angiopoietin Gene  
; TITLE OF INVENTION: Expression Using Short Interfering Nucleic Acid (siNA)  
; FILE REFERENCE: 400/226 (MBHB04-673)  
; CURRENT APPLICATION NUMBER: US/10/922,626  
; CURRENT FILING DATE: 2004-08-19  
; PRIOR APPLICATION NUMBER: PCT/US04/16390  
; PRIOR FILING DATE: 2004-05-24  
; PRIOR APPLICATION NUMBER: US 10/826,966  
; PRIOR FILING DATE: 2004-04-16  
; PRIOR APPLICATION NUMBER: PCT/US04/13456  
; PRIOR FILING DATE: 2004-04-30  
; PRIOR APPLICATION NUMBER: US 10/780,447  
; PRIOR FILING DATE: 2004-02-13  
; PRIOR APPLICATION NUMBER: US 60/292,217  
; PRIOR FILING DATE: 2001-05-18  
; PRIOR APPLICATION NUMBER: US 60/362,016  
; PRIOR FILING DATE: 2002-03-06  
; PRIOR APPLICATION NUMBER: US 60/363,883  
; PRIOR FILING DATE: 2001-07-20  
; PRIOR APPLICATION NUMBER: US 60/311,865  
; PRIOR FILING DATE: 2001-08-13  
; PRIOR APPLICATION NUMBER: US 10/727,780  
; PRIOR FILING DATE: 2003-12-03  
; PRIOR APPLICATION NUMBER: US 60/543,480  
; PRIOR FILING DATE: 2004-02-10  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 686  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 438

## RESULT 24

US-09-791-942-44/C  
; Sequence 44, Application US/09791942  
; Patent No. US20020147166A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Robert Rothlein  
; APPLICANT: Takashi Kei Kishimoto  
; APPLICANT: Lex M. Cowser  
; TITLE OF INVENTION: ANTISENSE MODULATION OF TALIN EXPRESSION  
; FILE REFERENCE: RTS-0099  
; CURRENT APPLICATION NUMBER: US/09/791,942  
; CURRENT FILING DATE: 2001-02-22  
; NUMBER OF SEQ ID NOS: 89  
; SEQ ID NO 44

```

; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-791-942-44

```

## RESULT 25

```

US-09-888-361-50
; Sequence 50, Application US/09888361
; Publication No. US20030064944A1
; GENERAL INFORMATION:
; APPLICANT: Susan Murray
; APPLICANT: Jacqueline Wyatt
; TITLE OF INVENTION: ANTISENSE MODULATION OF TRANSFORMING GROWTH FACTOR BETA RECEPTOR
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0158
; CURRENT APPLICATION NUMBER: US/09/888,361
; CURRENT FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 163
; SEQ ID NO 50
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-09-888-361-50

```

RESULT 26

```

US-10-415-463-44/C
; Sequence 44, Application US/10415463
; Publication No. US20040110705A1
; GENERAL INFORMATION:
; APPLICANT: Isis Pharmaceuticals, Inc.
; APPLICANT: C. Frank Bennett
; APPLICANT: Lex M. Cowsett
; TITLE OF INVENTION: ANTISENSE MODULATION OF TALIN EXPRESSION
; FILE REFERENCE: RTSP-0198
; CURRENT APPLICATION NUMBER: US/10/415,463
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: 09/702,251
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-415-463-44

```

Query Match 55.5%; Score 12.2; DB 19; Length 20;  
Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0

Qy 4 TGTTACAGGTAGAAAAG 20  
 ||||| ||||| ||||| |||||  
 Db 19 TGTTGACGAGCAGCAAG 3

RESULT 27  
 US-10-889-101-72  
 ; Sequence 72, Application US/10889101  
 ; Publication No. US20050107324A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bennett, C. Frank  
 ; APPLICANT: Dobie, Kenneth W.  
 ; APPLICANT: Jain, Ravi  
 ; TITLE OF INVENTION: MODULATION OF CEACAM1 EXPRESSION  
 ; FILE REFERENCE: ISIS0101-100 (RTS-0655US)  
 ; CURRENT APPLICATION NUMBER: US/10/889,101  
 ; CURRENT FILING DATE: 2004-07-12  
 ; PRIOR APPLICATION NUMBER: 60/486,652  
 ; PRIOR FILING DATE: 2003-07-12  
 ; NUMBER OF SEQ ID NOS: 298  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 72  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Compound  
 US-10-889-101-72

Query Match 55.5%; Score 12.2; DB 21; Length 20;  
 Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAA 19  
 || ||||| ||||| |||||  
 Db 3 ATCTACAGGTAGACAA 19

RESULT 28  
 US-10-889-101-218/c  
 ; Sequence 218, Application US/10889101  
 ; Publication No. US20050107324A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bennett, C. Frank  
 ; APPLICANT: Dobie, Kenneth W.  
 ; APPLICANT: Jain, Ravi  
 ; TITLE OF INVENTION: MODULATION OF CEACAM1 EXPRESSION  
 ; FILE REFERENCE: ISIS0101-100 (RTS-0655US)  
 ; CURRENT APPLICATION NUMBER: US/10/889,101  
 ; CURRENT FILING DATE: 2004-07-12  
 ; PRIOR APPLICATION NUMBER: 60/486,652  
 ; PRIOR FILING DATE: 2003-07-12  
 ; NUMBER OF SEQ ID NOS: 298  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 218  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: H. sapiens  
 US-10-889-101-218

Query Match 55.5%; Score 12.2; DB 21; Length 20;  
 Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAA 19  
 || ||||| ||||| |||||  
 Db 18 ATCTACAGGTAGACAA 2

RESULT 29  
 US-10-705-715-50  
 ; Sequence 50, Application US/10705715  
 ; Publication No. US2004014742A1

; GENERAL INFORMATION:  
 ; APPLICANT: Susan Murray  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF TRANSFORMING GROWTH FACTOR BETA RECEPTOR  
 ; TITLE OF INVENTION: EXPRESSION  
 ; FILE REFERENCE: RTS-0158  
 ; CURRENT APPLICATION NUMBER: US/10/705,715  
 ; CURRENT FILING DATE: 2003-11-10  
 ; PRIOR APPLICATION NUMBER: US/09/888,361  
 ; PRIOR FILING DATE: 2001-06-21  
 ; NUMBER OF SEQ ID NOS: 163  
 ; SEQ ID NO 50  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-705-715-50

Query Match 55.5%; Score 12.2; DB 22; Length 20;  
 Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21  
 || ||||| ||||| |||||  
 Db 1 GTCACAGGTGAAAAATC 17

RESULT 30  
 US-10-333-429-274/c  
 ; Sequence 274, Application US/10333429  
 ; Publication No. US20040048265A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: GENSET  
 ; TITLE OF INVENTION: Obesity Associated Biallelic Marker Maps  
 ; FILE REFERENCE: G-083US02PCT  
 ; CURRENT APPLICATION NUMBER: US/10/333,429  
 ; CURRENT FILING DATE: 2003-01-17  
 ; PRIOR APPLICATION NUMBER: PCT/IB01/01477  
 ; PRIOR FILING DATE: 2001-06-28  
 ; PRIOR APPLICATION NUMBER: US 60/219,704  
 ; PRIOR FILING DATE: 2000-07-18  
 ; NUMBER OF SEQ ID NOS: 579  
 ; SOFTWARE: Patent.pm  
 ; SEQ ID NO 274  
 ; LENGTH: 21  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapiens  
 ; FEATURE:  
 ; NAME/KEY: primer\_bind  
 ; LOCATION: 1..21  
 ; OTHER INFORMATION: upstream amplification primer 99-44259 for SEQ 103,  
 US-10-333-429-274

Query Match 55.5%; Score 12.2; DB 18; Length 21;  
 Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 GTTACAGGTAGAAAAGC 21  
 || ||||| ||||| |||||  
 Db 19 GTTTCAGATAAAAAAGC 3

RESULT 31  
 US-10-751-736-831/c  
 ; Sequence 831, Application US/10751736  
 ; Publication No. US20040265230A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wyeth  
 ; APPLICANT: Martinez, Robert  
 ; APPLICANT: Brown, Eugene  
 ; APPLICANT: Liu, Wei  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON

; TITLE OF INVENTION: CANCERS  
; FILE REFERENCE: AM100927 (031896-002000)  
; CURRENT APPLICATION NUMBER: US/10/751,736  
; CURRENT FILING DATE: 2003-01-06  
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000  
; PRIOR FILING DATE: 2003-01-06  
; NUMBER OF SEQ ID NOS: 54873  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 831  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: RNAI  
US-10-751-736-831

Query Match 55.5%; Score 12.2; DB 20; Length 21;  
Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAA 19  
Db 17 ATGTCAGGTATAAAA 1

RESULT 32  
US-10-751-736-1680/c  
; Sequence 1680, Application US/10751736  
; Publication No. US20040265230A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Martinez, Robert  
; APPLICANT: Brown, Eugene  
; APPLICANT: Liu, Wei  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON  
; FILE REFERENCE: AM100927 (031896-002000)  
; CURRENT APPLICATION NUMBER: US/10/751,736  
; CURRENT FILING DATE: 2003-01-06  
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000  
; PRIOR FILING DATE: 2003-01-06  
; NUMBER OF SEQ ID NOS: 54873  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1680  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: RNAI  
US-10-751-736-1680

Query Match 55.5%; Score 12.2; DB 20; Length 21;  
Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAA 19  
Db 17 ATGTCAGGTATAAAA 1

RESULT 33  
US-10-751-736-10500  
; Sequence 10500, Application US/10751736  
; Publication No. US20040265230A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Martinez, Robert  
; APPLICANT: Brown, Eugene  
; APPLICANT: Liu, Wei  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON  
; FILE REFERENCE: AM100927 (031896-002000)  
; CURRENT APPLICATION NUMBER: US/10/751,736  
; CURRENT FILING DATE: 2003-01-06  
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000  
; PRIOR FILING DATE: 2003-01-06  
; NUMBER OF SEQ ID NOS: 54873

; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 10500  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: RNAI  
US-10-751-736-10500

Query Match 55.5%; Score 12.2; DB 20; Length 21;  
Best Local Similarity 64.7%; Pred. No. 5.1e+04;  
Matches 11; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 6 TTACAGGTAGAAAAGCC 22  
Db 1 UTACCGGAGAAACACC 17

RESULT 34  
US-10-751-736-15982  
; Sequence 15982, Application US/10751736  
; Publication No. US20040265230A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Martinez, Robert  
; APPLICANT: Brown, Eugene  
; APPLICANT: Liu, Wei  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON  
; FILE REFERENCE: AM100927 (031896-002000)  
; CURRENT APPLICATION NUMBER: US/10/751,736  
; CURRENT FILING DATE: 2003-01-06  
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000  
; PRIOR FILING DATE: 2003-01-06  
; NUMBER OF SEQ ID NOS: 54873  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 15982  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: homo sapiens  
US-10-751-736-15982

Query Match 55.5%; Score 12.2; DB 20; Length 21;  
Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGTAGAA 17  
Db 3 GCATGTCACGTGAAGAA 19

RESULT 35  
US-10-751-736-15983  
; Sequence 15983, Application US/10751736  
; Publication No. US20040265230A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Martinez, Robert  
; APPLICANT: Brown, Eugene  
; APPLICANT: Liu, Wei  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON  
; FILE REFERENCE: AM100927 (031896-002000)  
; CURRENT APPLICATION NUMBER: US/10/751,736  
; CURRENT FILING DATE: 2003-01-06  
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000  
; PRIOR FILING DATE: 2003-01-06  
; NUMBER OF SEQ ID NOS: 54873  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 15983  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: RNAI  
US-10-751-736-15983



Query Match 55.5%; Score 12.2; DB 20; Length 21;  
Best Local Similarity 70.6%; Pred. No. 5.1e+04;  
Matches 12; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGTAGAA 17  
Db 1 GCAUGUCACUGGAAGAA 17

RESULT 36  
US-10-751-736-40680/c  
; Sequence 40680, Application US/10751736  
; Publication No. US20040265230A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Martinez, Robert  
; APPLICANT: Brown, Eugene  
; APPLICANT: Liu, Wei  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON  
; FILE REFERENCE: AM100927 (031896-002000)  
; CURRENT APPLICATION NUMBER: US/10/751,736  
; CURRENT FILING DATE: 2003-01-06  
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000  
; PRIOR FILING DATE: 2003-01-06  
; NUMBER OF SEQ ID NOS: 54873  
; SOFTWARE: Patent in version 3.2  
; SEQ ID NO 40680  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: RNAI  
US-10-751-736-40680

Query Match 55.5%; Score 12.2; DB 20; Length 21;  
Best Local Similarity 82.4%; Pred. No. 5.1e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGTAGAA 17  
Db 17 GCGTGTGCAGGTAGAA 1

RESULT 37  
US-10-349-143-9693/c  
; Sequence 9693, Application US/10349143  
; Publication No. US20040005584A1  
; GENERAL INFORMATION:  
; APPLICANT: Blumenfeld, Marta  
; APPLICANT: Cohen, Daniel  
; APPLICANT: Chumakov, Ilya  
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...  
; FILE REFERENCE: GENSET.020CPI  
; CURRENT APPLICATION NUMBER: US/10/349,143  
; CURRENT FILING DATE: 2003-01-21  
; PRIOR APPLICATION NUMBER: US/09/422,978  
; PRIOR FILING DATE: 1998-10-20  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298,850  
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109,732  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082,614  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21  
; NUMBER OF SEQ ID NOS: 11796  
; SEQ ID NO 9693  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; NAME/KEY: primer\_bind  
; LOCATION: 1..20  
; OTHER INFORMATION: downstream amplification primer 99-669 for SEQ 1828, in complement  
US-10-349-143-9693

Query Match 54.5%; Score 12; DB 17; Length 20;  
Best Local Similarity 75.0%; Pred. No. 6.4e+04;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGTAGAAAAG 20  
Db 20 GTATGTCGTGAGGTATAAAAG 1

RESULT 38  
US-09-969-373-4522  
; Sequence 4522, Application US/09969373  
; Patent No. US20020133852A1  
; GENERAL INFORMATION:  
; APPLICANT: Efferetz, Roger J.  
; APPLICANT: Hauge, Brian M.  
; TITLE OF INVENTION: Soybean SSRs and Methods of Genotyping  
; FILE REFERENCE: 38-10(52679)A  
; CURRENT APPLICATION NUMBER: US/09/969,373  
; CURRENT FILING DATE: 2001-10-02  
; PRIOR APPLICATION NUMBER: US 09/754,853  
; PRIOR FILING DATE: 2001-01-05  
; PRIOR APPLICATION NUMBER: US 09/760,427  
; PRIOR FILING DATE: 2001-01-13  
; PRIOR APPLICATION NUMBER: US 09/855,768  
; PRIOR FILING DATE: 2001-05-15  
; NUMBER OF SEQ ID NOS: 4593  
; SEQ ID NO 4522  
; LENGTH: 19  
; TYPE: DNA  
; ORGANISM: Glycine max  
US-09-969-373-4522

Query Match 53.6%; Score 11.8; DB 9; Length 19;  
Best Local Similarity 86.7%; Pred. No. 7.9e+04;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 TGTTCACAGGTAGAAA 18  
Db 3 TGTTCACAGGTACAAA 17

RESULT 39  
US-09-969-373-4524  
; Sequence 4524, Application US/09969373  
; Patent No. US20020133852A1  
; GENERAL INFORMATION:  
; APPLICANT: Efferetz, Roger J.  
; APPLICANT: Hauge, Brian M.  
; TITLE OF INVENTION: Soybean SSRs and Methods of Genotyping  
; FILE REFERENCE: 38-10(52679)A  
; CURRENT APPLICATION NUMBER: US/09/969,373  
; CURRENT FILING DATE: 2001-10-02  
; PRIOR APPLICATION NUMBER: US 09/754,853  
; PRIOR FILING DATE: 2001-01-05  
; PRIOR APPLICATION NUMBER: US 09/760,427  
; PRIOR FILING DATE: 2001-01-13  
; PRIOR APPLICATION NUMBER: US 09/855,768  
; PRIOR FILING DATE: 2001-05-15  
; NUMBER OF SEQ ID NOS: 4593  
; SEQ ID NO 4524  
; LENGTH: 19  
; TYPE: DNA  
; ORGANISM: Glycine max  
US-09-969-373-4524

Query Match 53.6%; Score 11.8; DB 9; Length 19;  
Best Local Similarity 86.7%; Pred. No. 7.9e+04;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 TGTTCACAGGTAGAAA 18  
Db 3 TGTTCACAGGTACAAA 17

```

RESULT 40
US-10-349-143-6072
; Sequence 6072, Application US/10349143
; Publication No. US20040005584A1
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET.020CPI
; CURRENT APPLICATION NUMBER: US/10/349,143
; CURRENT FILING DATE: 2003-01-21
; PRIOR APPLICATION NUMBER: US/09/422,978
; PRIOR FILING DATE: 1999-10-20
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298,850
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109,732
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082,614
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 6072
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..19
; OTHER INFORMATION: upstream amplification primer 99-8748 for SEQ 2138,
US-10-349-143-6072

Query Match      53.6%; Score 11.8; DB 17; Length 19;
Best Local Similarity 86.7%; Pred. NO. 7.9e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      5 GTTACAGGTGAGAAA 19
Db      1 GTTAGAGGTTGAGAAA 15

```

Search completed: August 12, 2005, 10:02:51  
Job time : 373 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 05:54:16 ; Search time 1779 Seconds  
(without alignments)  
470.722 Million cell updates/sec

Title: US-09-743-825-7

Perfect score: 22

Sequence: 1 gcattgtacaggtagaaagcc 22

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 34239544 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters: 18786

Minimum DB seq length: 0

Maximum DB seq length: 22

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

EST:\*

1: gb\_est1:\*

2: gb\_est2:\*

3: gb\_hic:\*

4: gb\_est3:\*

5: gb\_est4:\*

6: gb\_est5:\*

7: gb\_est6:\*

8: gb\_gsl1:\*

9: gb\_gsl2:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	13.8	62.7	22	8	AZ659094
2	11.2	50.9	20	9	TA359F10Q
3	11	50.0	20	8	AZ452265
4	10.8	49.1	20	9	CL681335
5	10.8	49.1	22	8	AZ651001
6	10.6	48.2	20	8	AZ775974
7	10.6	48.2	21	9	CL436392
8	10.4	47.3	22	8	AZ990555
9	10.2	46.4	21	8	AZ649514
10	10	45.5	19	1	A1545076
11	10	45.5	19	8	AZ775273
12	10	45.5	20	1	AU008116
13	10	45.5	20	8	AZ585902
14	10	45.5	21	8	AZ828233
15	10	45.5	21	8	AZ828233
16	9.8	44.5	13	9	CL437394
17	9.8	44.5	19	7	CF316655
18	9.8	44.5	19	8	AZ377971
19	9.8	44.5	19	8	AZ808350
20	9.8	44.5	20	8	AZ825409
21	9.8	44.5	20	9	AZ799032
22	9.8	44.5	20	9	AJ596498
23	9.8	44.5	21	8	AZ430939
24	9.8	44.5	21	8	AZ483078

25	9.8	44.5	22	8	AZ786362
26	9.6	43.6	19	9	CL668834
27	9.6	43.6	20	8	AZ396022
28	9.6	43.6	20	8	AZ787298
29	9.6	43.6	21	9	CL687844
30	9.6	43.6	21	9	AG197947
31	9.4	42.7	19	8	AZ312945
32	9.4	42.7	19	8	AZ774536
33	9.4	42.7	20	1	AJ796099
34	9.4	42.7	21	8	AZ428984
35	9.4	42.7	22	8	AZ942905
36	9.4	42.7	22	8	TA82907Q
37	9.2	41.8	19	7	CO780477
38	9.2	41.8	19	8	AZ612157
39	9.2	41.8	19	8	AZ817291
40	9.2	41.8	21	1	AU008312
41	9.2	41.8	21	8	AZ348213
42	9.2	41.8	21	8	AZ760232
43	9.2	41.8	22	8	AZ357874
44	9.2	41.8	22	8	AZ807992
45	9.2	41.8	22	9	AJ590809
46	9.2	41.8	22	9	TA246F04Q
47	9.2	41.8	22	9	CL670376
48	9	40.9	19	7	CF295672
49	9	40.9	19	7	CF337272
50	9	40.9	19	8	AZ865832
51	9	40.9	20	1	AU256704
52	9	40.9	20	7	D18242
53	9	40.9	20	8	AZ328275
54	9	40.9	20	8	AZ489135
55	9	40.9	20	8	AZ499543
56	9	40.9	20	8	AZ782333
57	9	40.9	22	8	AZ345854
58	8.8	40.0	16	2	AW250981
59	8.8	40.0	19	5	BO789814
60	8.8	40.0	19	8	AZ328922
61	8.8	40.0	19	8	AZ357958
62	8.8	40.0	19	8	AZ585367
63	8.8	40.0	20	8	AZ368917
64	8.8	40.0	20	8	AZ462631
65	8.8	40.0	20	8	AZ490568
66	8.8	40.0	21	5	EX553324
67	8.8	40.0	21	8	AZ439800
68	8.8	40.0	21	8	AZ598000
69	8.8	40.0	21	8	AZ765823
70	8.8	40.0	21	8	AZ776420
71	8.8	40.0	22	6	CD529328
72	8.8	40.0	22	8	AZ345846
73	8.8	40.0	22	8	AZ392578
74	8.8	40.0	22	8	AZ501345
75	8.8	40.0	22	8	AZ610074
76	8.8	40.0	22	8	AZ819251
77	8.8	40.0	22	8	AZ990555
78	8.6	39.1	17	6	C21103
79	8.6	39.1	19	8	AZ581163
80	8.6	39.1	19	8	AZ623493
81	8.6	39.1	20	8	AZ308068
82	8.6	39.1	20	8	AZ407675
83	8.6	39.1	20	8	AZ772089
84	8.6	39.1	21	1	AU257209
85	8.6	39.1	21	8	AZ402083
86	8.6	39.1	21	8	AZ514444
87	8.6	39.1	22	1	A1219622
88	8.6	39.1	22	7	CF314827
89	8.6	39.1	22	8	AZ483608
90	8.6	39.1	22	8	AZ824702
91	8.6	39.1	22	9	AZ979907
92	8.4	38.2	15	9	AJ589581
93	8.4	38.2	15	9	AJ591909
94	8.4	38.2	16	9	CL683179
95	8.4	38.2	19	8	AZ397615
96	8.4	38.2	19	8	AZ597767
97	8.4	38.2	19	8	AZ782384

c 98 8.4 38.2 19 8 A2788165 A2788165 2M0035P02  
 c 99 8.4 38.2 20 1 AU254575 AU254575  
 c 100 8.4 38.2 20 8 A2331643 1M0059P12

## ALIGNMENTS

RESULT 1  
 LOCUS AZ659094 22 bp DNA linear GSS I4-DEC-2000  
 DEFINITION 1M0536E16F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0536E16 F, genomic survey sequence.

ACCESSION AZ659094  
 VERSION AZ659094.1 GI:11796240

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 22)

AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL Unpublished (2000)

COMMENT Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: dgunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0536 row: E column: 16

Seq primer: CTTGTAAACGACGGCCAGT

Class: plasmid ends

High quality sequence stop: 22.

FEATURES

source

1..22

/organism="Mus musculus"

/mol\_type="genomic DNA"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="UUGC1M0536E16"

/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, Tl-resistant, F-"

/clone\_lib="Mouse 10kb plasmid UUGC1M library"

/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Query Match 62.7%; Score 13.8; DB 8; Length 22;

Best Local Similarity 88.2%; Pred. No. 5.3e+04;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 3 ATGTTACAGGTAGTAAAA 19  
 ||| ||||| ||||| |||

Db 6 ATGATACAGGTAGTAAAA 22

RESULT 2

LOCUS TA359F10Q/c

DEFINITION T. brucei sheared genomic DNA clone 359f10, reverse sequence, genomic survey sequence.

ACCESSION AL495341

VERSION AL495341.1 GI:11871728

KEYWORDS GSS.

SOURCE Trypanosoma brucei

ORGANISM Trypanosoma brucei

Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.

REFERENCE 1 (bases 1 to 20)

AUTHORS Hall, N., Bowman, S., Lennard, N. J., Doggett, J., Atkin, R., Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L., Melville, S. E., Rajandream, M. A. and Barrell, B. G.

TITLE Direct Submission

JOURNAL Submitted (10-DEC-2000)

Trypanosoma brucei genome sequencing project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and nh@sanger.ac.uk

COMMENT Constructed at the Institute for Genomic Research (TIGR), Rockville, MD. Genomic DNA isolated from a cloned population of Trypanosoma brucei (TREU927/4 GUTat 10.1) was mechanically sheared to give a tight size distribution (4 kb). The v + i method used for the library construction is described in detail in Smith, H. and Venter, J. C. (Making small insert libraries for whole genome shotgun sequencing projects. In Genome Sequencing: A Practical Approach, eds. M. Vaudin and B. Barrell, Oxford University Press, 1999).

Email: nelsayed@tigr.org

Details of T. brucei sequencing at the Sanger Centre are available at http://www.sanger.ac.uk/Projects/T\_brucei/.

FEATURES

source

1..20

/organism="Trypanosoma brucei"

/mol\_type="genomic DNA"

/strain="TREU927"

/db\_xref="taxon:5691"

/clone="359f10"

ORIGIN

Query Match

Best Local Similarity

Matches 13; Conservative

0; Mismatches 3; Indels

0; Gaps 0;

Oy

6 TTACAGGTAGTAAAAAGC 21  
 ||||| ||||| |||||

Db

19 TCACAGGCACAAAAGC 4

RESULT 3

LOCUS AZ452265/c

DEFINITION 1M0252H06F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0252H06 F, genomic survey sequence.

ACCESSION AZ452265

VERSION AZ452265.1 GI:10608897

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 20)

REFERENCE

AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,



/db xref="taxon:10090"  
 /clone="UUGC1M0521023"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 [gi|4732114|gb|AF129072.1], a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 49.1%; Score 10.8; DB 8; Length 22;  
 Best Local Similarity 85.7%; Pred. No. 1.5e+06;  
 Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 TGTTACAGGTAGAA 17  
 |||||  
 Db 6 TGCTACAGGTGAA 19

RESULT 6  
 AZ775974  
 LOCUS  
 DEFINITION  
 2M0009H14F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC2M0009H14 F, genomic survey sequence.

ACCESSION  
 VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM

Mus musculus (house mouse)  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 20)

## REFERENCE

AUTHORS  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.

TITLE  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

## JOURNAL

COMMENT  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT 84112, USA

Tel: 801 585 5606  
 Fax: 801 585 7177

Email: dunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Seq primer: CGTTGTAACGACGCCAGT

Class: plasmid ends

High quality sequence stop: 20.

Location/Qualifiers

1..20  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"

## FEATURES

source

/db xref="taxon:10090"  
 /clone="UUGC2M0009H14"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 [gi|4732114|gb|AF129072.1], a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 48.2%; Score 10.6; DB 8; Length 20;  
 Best Local Similarity 76.5%; Pred. No. 1.8e+06;  
 Matches 13; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAA 19  
 |||||  
 Db 3 ATGATACAGGATAAA 19

## RESULT 7

CL436392

LOCUS

DEFINITION  
 PST2884-NL.Seq MICE1 Mus musculus genomic clone PST2884-NL.Seq similar to 2700016D05Rik, genomic survey sequence.

ACCESSION  
 CL436392

VERSION  
 CL436392.1 GI:45571141

KEYWORDS  
 GSS.

SOURCE  
 Mus musculus (house mouse)

ORGANISM

Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 21)

## REFERENCE

AUTHORS  
 Hicks,G.G.

TITLE  
 www.EScells.ca

JOURNAL  
 Unpublished (2002)

COMMENT  
 Contact: Hicks GG

Mammalian Functional Genomics Centre  
 Manitoba Institute of Cell Biology, University of Manitoba  
 ON5029, 675 McDermot Ave, Winnipeg, MB R3E 0V9, Canada  
 Tel: 204 787 2133  
 Fax: 204 787 2190

Email: hicksgg@cc.umanitoba.ca  
 UNeosVI gene trap. Tag generated by plasmid rescue. Additional sequence information and target gene cloning can be generated. ES cell line harboring insertion mutation of target gene is available.

Sequence analysis available from  
 http://140.193.242.7/esdb/public\_search\_frame.php?PST=PST2884-NL.Se

Class: Gene Trap.

Location/Qualifiers

1..21  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="129 sv"  
 /db\_xref="taxon:10090"  
 /clone="PST2884-NL.Seq"  
 /sex="Male"

/cell type="Embryonic stem cell"  
 /cell\_line="D3H (J1 subclone)"  
 /clone\_lib="MICBI"  
 /note="Vector: U3NeoSV1"

## ORIGIN

Query Match 48.2%; Score 10.6; DB 9; Length 21;  
 Best Local Similarity 76.5%; Pred. No. 1.9e+06;  
 Matches 13; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
 Qy 2 CATGTTACAGTAGAAA 18  
 ||||| | |||||  
 Db 1 CATGCTCTAGTAGAAA 17

## RESULT 8

AZ990555/c  
 LOCUS 2M0274N14F Mouse 10kb plasmid UUGC2M library Mus musculus genomic  
 DEFINITION clone UUGC2M0274N14 F, genomic survey sequence.

ACCESSION AZ990555  
 VERSION AZ990555.1 GI:13861782

KEYWORDS GSS.  
 SOURCE Mus musculus (house mouse)

## ORGANISM

Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.

## REFERENCE

1 (bases 1 to 22)  
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
 Reilly, M., Rose, R., Stokes, R., Tingey, A., von  
 Niederhausern, A. and Wright, D., Weiss, R.

Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts

## JOURNAL

COMMENT Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177

Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0274 row: N column: 14

Seq primer: CGTTGTAACGACGCCAGT  
 Class: plasmid ends

High quality sequence stop: 22.  
 Location/Qualifiers

## FEATURES

source

1..22

/organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC2M0274N14"  
 /sex="female"  
 /lab\_host="E. coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC2M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M.  
 musculus C57BL/6J (female) was obtained from the Jackson  
 Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA  
 was hydrodynamically sheared by repeated passage through a  
 0.005 inch orifice at constant velocity. The sheared DNA  
 was blunt end-repaired with T4 DNA polymerase and T4  
 polynucleotide kinase. Adaptor oligonucleotides were  
 ligated to the blunt ends in high molar excess. The  
 adapted DNA was purified and size-selected for a 9.5 to  
 10.5 kb range using preparative agarose gel  
 electrophoresis. Vector DNA was prepared from a derivative  
 of pWD42 (gi|4732114|gb|AF129072.1), a copy-number  
 inducible derivative of plasmid R1. The vector was ligated  
 with adaptors complementary to the insert adaptors and

## ORIGIN

Query Match 47.3%; Score 10.4; DB 8; Length 22;  
 Best Local Similarity 91.7%; Pred. No. 2.3e+06;  
 Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 7 TACAGGTAGAAA 18  
 ||||| | |||||  
 Db 13 TGCAGGTAGAAA 2

## RESULT 9

AZ649514/c

## LOCUS

DEFINITION A2649514 21 bp DNA linear GSS 14-DEC-2000  
 clone UUGC1M0519A09 F, genomic survey sequence.

ACCESSION A2649514

VERSION A2649514.1 GI:11783070

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

## ORGANISM

Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.

## REFERENCE

1 (bases 1 to 21)  
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
 Reilly, M., Rose, R., Stokes, R., Tingey, A., von  
 Niederhausern, A. and Wright, D., Weiss, R.

Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts

## JOURNAL

COMMENT Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177

Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0519 row: A column: 09

Seq primer: CGTTGTAACGACGCCAGT  
 Class: plasmid ends

High quality sequence stop: 21.  
 Location/Qualifiers

## FEATURES

source

1..21

/organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0519A09"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M.  
 musculus C57BL/6J (male) was obtained from the Jackson  
 Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA  
 was hydrodynamically sheared by repeated passage through a  
 0.005 inch orifice at constant velocity. The sheared DNA  
 was blunt end-repaired with T4 DNA polymerase and T4  
 polynucleotide kinase. Adaptor oligonucleotides were  
 ligated to the blunt ends in high molar excess. The  
 adapted DNA was purified and size-selected for a 9.5 to  
 10.5 kb range using preparative agarose gel  
 electrophoresis. Vector DNA was prepared from a derivative  
 of pWD42 (gi|4732114|gb|AF129072.1), a copy-number  
 inducible derivative of plasmid R1. The vector was ligated  
 with adaptors complementary to the insert adaptors and

purified. The sheared, adapted mouse DNA was annealed to  
 adapted vector DNA, and transformed into  
 chemically-competent E. coli XL10-Gold (Stratagene) cells  
 and selected for ampicillin resistance."

purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 46.4%; Score 10.2; DB 8; Length 21;  
Best Local Similarity 80.0%; Pred. No. 2.9e+06;

Matches 12; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 6 TTACAGGTAGAAAAG 20

Db 16 TTGCAGGTATTAAAG 2

## RESULT 10

AI545076

## LOCUS

DEFINITION 19 bp mRNA linear EST 07-JUN-2001  
fb70d07.v1 Zebrafish Washu MPIMG EST Danio rerio cDNA clone  
IMAGE:3717229 5' similar to TR:023327 023327 HYPOTHETICAL 108.0 KD

PROTEIN. ;, mRNA sequence.

ACCESSION AI545076

VERSION AI545076.1 GI:4462449

KEYWORDS EST.

SOURCE Danio rerio (zebrafish)

## ORGANISM

Danio rerio  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Actinopterygii; Neopterygii; Teleostei; Ostariophysi;

Cypriniformes; Cyprinidae; Danio.

## REFERENCE

1 (bases 1 to 19)

## AUTHORS

Clark M., Johnson, S.L., Lebrach, H., Lee, R., Li, F., Marra, M.,  
Eddy, S., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T.,  
Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y.,  
Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R.,  
Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R.,  
Waterston, R. and Wilson, R.

Washu Zebrafish EST Project 1998

## TITLE

## JOURNAL

## COMMENT

Contact: Stephen L. Johnson

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA

Tel: 314 286 1800

Fax: 314 286 1810

Email: zbrafish@watson.wustl.edu

cDNA Library Preparation: Matthew Clark. cDNA Library Arrayed by:

Matthew Clark. DNA Sequencing by: Washington University Genome

Sequencing Center Clone distribution: Genome Systems, St. Louis,

Missouri (web address: www.genomesystems.com) (email contact:

info@genomesystems.com) and Research Genetics, Huntsville, Alabama

(web address: www.resgen.com) (email contact: info@resgen.com) and

ReSourceZentrumPrimarDatenbank, Berlin, Germany (web address:

www.rzpd.de)

Trace considered overall poor quality

Possible reversed clone: similarity on wrong strand

Seg primer: T3 ET from Amersham

High quality sequence stop: 1

POLYA=No.

Location/Qualifiers

1..19

/organism="Danio rerio"

/mol\_type="mRNA"

/db\_xref="taxon:7955"

/clone="IMAGE:3717229"

/sex="mixed"

/tissue type="26 somite embryos, adult livers, shield

stage embryos"

/lab host="XLI-blue MRF"

/clone lib="Zebrafish Washu MPIMG EST"

/note="Vector: pSPOR1; Site\_1: NotI; Site\_2: SalI; 1st

strand cDNA was primed with a Not I - oligo(dT)15 primer

[5'-pGACTAGTCTAGATCGAGCGGCCCGCTTTTCTTTT3'];

double-stranded cDNA was ligated to Sal I adaptors (BRL),

digested with Not I and cloned into the Not I and Sal I

## ORIGIN

Query Match 45.5%; Score 10; DB 1; Length 19;

Best Local Similarity 72.2%; Pred. No. 3.6e+06;

Matches 13; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCATGTTACAGGTAGAAA 18

Db 2 GCATGGTACATGGATGAA 19

## RESULT 11

AZ775273/c

## LOCUS

DEFINITION 19 bp DNA linear GSS 16-FEB-2001  
2M0007F04R Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
clone UUGC2M0007F04 R, genomic survey sequence.

ACCESSION AZ775273

VERSION AZ775273.1 GI:12901587

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

## ORGANISM

Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 19)

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,

Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,

Kelly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von

Niederhausen, A. and Wright, D., Weiss, R.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah Genome Center

Rm. 308, Biomedical

Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0007 row: F column: 04

Seg primer: CACACAGGAAACAGCTATGACC

Class: plasmid ends

High quality sequence stop: 19.

Location/Qualifiers

1..19

/organism="Mus musculus"

/mol\_type="genomic DNA"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="UUGC2M0007F04"

/sex="Male"

/lab host="E. Coli strain XL10-Gold, Tl-resistant, F-"

/clone lib="Mouse 10kb plasmid UUGC1M library"

/note="Vector: PWD42nv; Purified genomic DNA from M.

musculus C57BL/6J (male) was obtained from the Jackson

Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA

was hydrodynamically sheared by repeated passage through a

0.005 inch orifice at constant velocity. The sheared DNA

sites of the pSPORT1 vector (BRL). Library was constructed by Matthew Clark (Lehrach lab; ICRF, London and Max Planck Institut fuer Molekulare Genetik, Berlin). cDNAs for EST analysis were selected following oligonucleotide hybridization fingerprinting of arrayed clones from zebrafish late somitogenesis (26 ss), adult liver or embryonic shield stage (5.6 h) libraries. Fingerprint data were used to computationally cluster cDNAs, and a single cDNA from each cluster was chosen for sequencing. In some cases multiple members of the same cluster were sequenced to assess clustering parameters or single clones were sequenced additional times to assess quality control."





RESULT 14  
 AZ828233  
 LOCUS  
 DEFINITION  
 2M0105B09F Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
 clone UUGC2M0105B09 F, genomic survey sequence.  
 ACCESSION  
 AZ828233  
 VERSION  
 AZ828233.1 GI:12998141  
 KEYWORDS  
 GSS.  
 SOURCE  
 Mus musculus (house mouse)  
 ORGANISM  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 21)  
 DUNN, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
 Reilly, M., Rose, R., Rose, R., Stokes, R., Tingey, A., von  
 Niederhausern, A. and Wright, D., Weiss, R.  
 Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts  
 Unpublished (2000)  
 CONTACT: Robert B. Weiss  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0105 row: B column: 09  
 Seq primer: CGTTCTAAACGACGCCAGT  
 Class: plasmid ends  
 High quality sequence stop: 21.  
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 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC2M0105B09"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M.  
 musculus C57BL/6J (male) was obtained from the Jackson  
 Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA  
 was hydrodynamically sheared by repeated passage through a  
 0.005 inch orifice at constant velocity. The sheared DNA  
 was blunt end-repaired with T4 DNA polymerase and T4  
 polynucleotide kinase. Adaptor oligonucleotides were  
 ligated to the blunt ends in high molar excess. The  
 adaptor DNA was purified and size-selected for a 9.5 to  
 10.5 kb range using preparative agarose gel  
 electrophoresis. Vector DNA was prepared from a derivative  
 of pWD42 (gi|4732114|gb|AF129072.1), a copy-number  
 inducible derivative of plasmid R1. The vector was ligated  
 with adaptors complementary to the insert adaptors and  
 purified. The sheared, adaptor mouse DNA was annealed to  
 adaptor vector DNA, and transformed into  
 chemically-competent E. coli XL10-Gold (Stratagene) cells  
 and selected for ampicillin resistance."

## FEATURES

## source

1. .21  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC2M0105B09"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M.  
 musculus C57BL/6J (male) was obtained from the Jackson  
 Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA  
 was hydrodynamically sheared by repeated passage through a  
 0.005 inch orifice at constant velocity. The sheared DNA  
 was blunt end-repaired with T4 DNA polymerase and T4  
 polynucleotide kinase. Adaptor oligonucleotides were  
 ligated to the blunt ends in high molar excess. The  
 adaptor DNA was purified and size-selected for a 9.5 to  
 10.5 kb range using preparative agarose gel  
 electrophoresis. Vector DNA was prepared from a derivative  
 of pWD42 (gi|4732114|gb|AF129072.1), a copy-number  
 inducible derivative of plasmid R1. The vector was ligated  
 with adaptors complementary to the insert adaptors and  
 purified. The sheared, adaptor mouse DNA was annealed to  
 adaptor vector DNA, and transformed into  
 chemically-competent E. coli XL10-Gold (Stratagene) cells  
 and selected for ampicillin resistance."

## ORIGIN

Query Match 45.5%; Score 10; DB 8; Length 21;  
 Best Local Similarity 72.2%; Pred. No. 3.6e+06;  
 Matches 13; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Oy 2 CATGTTACAGGTAGAAA 19  
 | | | | | | | | | |  
 Db 2 CCTGTACACATTAATAAA 19

## RESULT 15

AZ828233/c  
 LOCUS  
 DEFINITION  
 2M0105B09F Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
 clone UUGC2M0105B09 F, genomic survey sequence.  
 ACCESSION  
 AZ828233  
 VERSION  
 AZ828233.1 GI:12998141  
 KEYWORDS  
 GSS.  
 SOURCE  
 Mus musculus (house mouse)  
 ORGANISM  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 21)  
 DUNN, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
 Reilly, M., Rose, R., Rose, R., Stokes, R., Tingey, A., von  
 Niederhausern, A. and Wright, D., Weiss, R.  
 Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts  
 Unpublished (2000)  
 CONTACT: Robert B. Weiss  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0105 row: B column: 09  
 Seq primer: CGTTCTAAACGACGCCAGT  
 Class: plasmid ends  
 High quality sequence stop: 21.  
 Location/Qualifiers  
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 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC2M0105B09"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M.  
 musculus C57BL/6J (male) was obtained from the Jackson  
 Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA  
 was hydrodynamically sheared by repeated passage through a  
 0.005 inch orifice at constant velocity. The sheared DNA  
 was blunt end-repaired with T4 DNA polymerase and T4  
 polynucleotide kinase. Adaptor oligonucleotides were  
 ligated to the blunt ends in high molar excess. The  
 adaptor DNA was purified and size-selected for a 9.5 to  
 10.5 kb range using preparative agarose gel  
 electrophoresis. Vector DNA was prepared from a derivative  
 of pWD42 (gi|4732114|gb|AF129072.1), a copy-number  
 inducible derivative of plasmid R1. The vector was ligated  
 with adaptors complementary to the insert adaptors and  
 purified. The sheared, adaptor mouse DNA was annealed to  
 adaptor vector DNA, and transformed into  
 chemically-competent E. coli XL10-Gold (Stratagene) cells  
 and selected for ampicillin resistance."

## FEATURES

## source

1. .21  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC2M0105B09"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M.  
 musculus C57BL/6J (male) was obtained from the Jackson  
 Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA  
 was hydrodynamically sheared by repeated passage through a  
 0.005 inch orifice at constant velocity. The sheared DNA  
 was blunt end-repaired with T4 DNA polymerase and T4  
 polynucleotide kinase. Adaptor oligonucleotides were  
 ligated to the blunt ends in high molar excess. The  
 adaptor DNA was purified and size-selected for a 9.5 to  
 10.5 kb range using preparative agarose gel  
 electrophoresis. Vector DNA was prepared from a derivative  
 of pWD42 (gi|4732114|gb|AF129072.1), a copy-number  
 inducible derivative of plasmid R1. The vector was ligated  
 with adaptors complementary to the insert adaptors and  
 purified. The sheared, adaptor mouse DNA was annealed to  
 adaptor vector DNA, and transformed into  
 chemically-competent E. coli XL10-Gold (Stratagene) cells  
 and selected for ampicillin resistance."

## ORIGIN

Query Match 45.5%; Score 10; DB 8; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 3.6e+06;  
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 4 TGTACAGGT 13  
 | | | | | | | | | |  
 Db 10 TGTACAGGT 1

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RESULT 16
LOCUS CL437394 13 bp DNA linear GSS 18-MAR-2004
DEFINITION PST5288-NL.Seq MICB1 Mus musculus genomic clone PST5288-NL.Seq.
ACCESSION CL437394
VERSION CL437394.1 GI:45573060
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE 1 (bases 1 to 13)
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
TITLE Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
JOURNAL Hicks.G.G.
COMMENT www.escells.ca
Mammalian Functional Genomics Centre
Manitoba Institute of Cell Biology, University of Manitoba
ON5029, 675 McDermot Ave, Winnipeg, MB R3E 0V9, Canada
Tel: 204 787 2133
Fax: 204 787 2190
Email: hicksgg@cc.umanitoba.ca
U3NeosV1 gene trap. Tag generated by plasmid rescue. Additional
sequence information and target gene cloning can be generated. ES
cell line harboring insertion mutation of target gene is available.
Sequence analysis available from
http://140.193.242.7/esdb/public_search_frame.php?PST=PST5288-NL.Se
q
Class: Gene Trap.
FEATURES
source Location/Qualifiers
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/organism="Mus musculus"
/mol_type="genomic DNA"
/db_xref="129 sv"
/clone="PST5288-NL.Seq"
/sex="Male"
/cell_type="Embryonic stem cell"
/cell_lines="D3H (J1 subclone)"
/clone_lib="MICB1"
/note="Vector: U3NeosV1"

ORIGIN
Query Match 44.5%; Score 9.8; DB 9; Length 13;
Best Local Similarity 84.6%; Pred. No. 4.2e+06;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 CATGTTACAGGTA 14
|||||
Db 1 CATGTTAAAGTA 13

RESULT 17
LOCUS CF316655/c 19 bp mRNA linear EST 15-AUG-2003
DEFINITION HD--06-A14.g1 OshDAC1-overexpressing transgenic rice plasmid cDNA
library (HD) Oryza sativa (japonica cultivar-group) cDNA clone
HD--06-A14, mRNA sequence.
ACCESSION CF316655
VERSION CF316655.1 GI:33688416
KEYWORDS EST.
SOURCE Oryza sativa (japonica cultivar-group)
ORGANISM Oryza sativa (japonica cultivar-group)
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Ehrhartoideae; Oryzaceae; Oryza.
REFERENCE 1 (bases 1 to 19)
AUTHORS Kim,J.S., Jun,K.M., Cheong,P.J., Kim,M.J., Lee,T.H., Shin,Y.C.,
Song,S.I., Kim,J.K., Kim,Y.-K. and Nahm,B.H.
TITLE Large-scale Sequencing Analysis of Rice ESTs
JOURNAL Unpublished (2003)
COMMENT Contact: Nahm B.H.

Query Match 44.5%; Score 9.8; DB 9; Length 13;
Best Local Similarity 84.6%; Pred. No. 4.2e+06;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 CATGTTACAGGTA 14
|||||
Db 1 CATGTTAAAGTA 13

RESULT 17
LOCUS CF316655/c 19 bp mRNA linear EST 15-AUG-2003
DEFINITION HD--06-A14.g1 OshDAC1-overexpressing transgenic rice plasmid cDNA
library (HD) Oryza sativa (japonica cultivar-group) cDNA clone
HD--06-A14, mRNA sequence.
ACCESSION CF316655
VERSION CF316655.1 GI:33688416
KEYWORDS EST.
SOURCE Oryza sativa (japonica cultivar-group)
ORGANISM Oryza sativa (japonica cultivar-group)
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Ehrhartoideae; Oryzaceae; Oryza.
REFERENCE 1 (bases 1 to 19)
AUTHORS Kim,J.S., Jun,K.M., Cheong,P.J., Kim,M.J., Lee,T.H., Shin,Y.C.,
Song,S.I., Kim,J.K., Kim,Y.-K. and Nahm,B.H.
TITLE Large-scale Sequencing Analysis of Rice ESTs
JOURNAL Unpublished (2003)
COMMENT Contact: Nahm B.H.

```

```

Genomics and Genetics Institute, GreenGene Biotech Inc.; Division
of Bioscience and Bioinformatics, Myongji University
Yongin, Kyeonggi, Korea
Tel: 82 31 330 6193
Fax: 82 31 321 6355
Email: bnhahm@gbio.com, bnhahm@bio.myongji.ac.kr.

FEATURES
source Location/Qualifiers
1..19
/organism="Oryza sativa (japonica cultivar-group)"
/mol_type="mRNA"
/cultivar="Nackdong"
/db_xref="taxon:39947"
/clone="HD--06-A14"
/tissue_type="callus"
/dev stage="proliferated callus on 2N6 media for 2 weeks"
/lab_host="E.coli DH10B"
/clone_lib="OshDAC1-overexpressing transgenic rice plasmid
cDNA library (HD)"
/note="Vector: PCR4-TOPO; Site_1: EcoRI; Callus was
treated with ABA(20um) for 1hr. Oligo-capped mRNA was
reverse transcribed and then used for PCR. mRNA was
derived from rice Histone Deacetylase overexpression
line."

ORIGIN
Query Match 44.5%; Score 9.8; DB 7; Length 19;
Best Local Similarity 84.6%; Pred. No. 4.5e+06;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 8 ACAGGTAGAAAG 20
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Db 13 ACAGGAATAAAG 1

RESULT 18
LOCUS AZ377971/c 19 bp DNA linear GSS 02-OCT-2000
DEFINITION 1M0132103R Mouse 10kb plasmid UUGCIM library Mus musculus genomic
clone UUGCIM0132103 R, genomic survey sequence.
ACCESSION AZ377971
VERSION AZ377971.1 GI:10491671
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 19)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Ielam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D., Weiss,R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
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Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
1..19
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FEATURES
source Location/Qualifiers
1..19
/organism="Mus musculus"
/mol_type="genomic DNA"
/db_xref="taxon:10090"

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/clones="UUGC1M0132103"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (G[4732114|gb|AF129072.1], a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

```

## ORIGIN

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Query Match      44.5%; Score 9.8; DB 8; Length 19;
Best Local Similarity 84.6%; Pred. No. 4.5e+06;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy 3 ATGTTACAGGTAG 15
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Db 18 ATGTTGATGTAG 6

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RESULT 19
AZ808350
LOCUS      19 bp      DNA      linear      GSS 20-FEB-2001
DEFINITION 2M0071P14R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC2M0071P14 R, genomic survey sequence.
ACCESSION  AZ808350
VERSION     AZ808350.1 GI:12973606
KEYWORDS   GSS.
SOURCE     Mus musculus (house mouse)
ORGANISM   Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 19)
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SUC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0071 row: P column: 14
Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
1..19
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/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"

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## FEATURES

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/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"

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/clones="UUGC2M0071P14"
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/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
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/notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (G[4732114|gb|AF129072.1], a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

```

## ORIGIN

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Query Match      44.5%; Score 9.8; DB 8; Length 19;
Best Local Similarity 84.6%; Pred. No. 4.5e+06;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy 7 TACAGGTAGAAA 19
    ||||| |||||
Db 3 TACACATAGAAA 15

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RESULT 20
AZ625409/c
LOCUS      20 bp      DNA      linear      GSS 13-DEC-2000
DEFINITION 1M0464C20R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0464C20 R, genomic survey sequence.
ACCESSION  AZ625409
VERSION     AZ625409.1 GI:11747599
KEYWORDS   GSS.
SOURCE     Mus musculus (house mouse)
ORGANISM   Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 20)
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SUC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0464 row: C column: 20
Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 20.
Location/Qualifiers
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/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"

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/clone="UUGC1M0464C20"
/lab host="E. Coli strain XL10-Gold, T1-resistant, F-"
/sex="Male"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (G14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

```

## ORIGIN

```

Query Match 44.5%; Score 9.8; DB 8; Length 20;
Best Local Similarity 84.6%; Pred. No. 4.5e+06;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

Qy 1 GCATGTTACAGGT 13
    |||||
Db 13 GCATGGTACTGTT 1

```

```

RESULT 21
AZ799032/c
LOCUS
DEFINITION
2M0056K07F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC2M0056K07 F, genomic survey sequence.

```

```

ACCESSION AZ799032
VERSION AZ799032.1 GI:12949733
SOURCE GSS.

```

```

ORGANISM Mus musculus (house mouse)

```

```

REFERENCE
AUTHORS
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 20)

```

```

Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weiss,R.

```

```

TITLE
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

```

```

JOURNAL Unpublished (2000)

```

```

COMMENT Contact: Robert B. Weiss
University of Utah Genome Center

```

```

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177

```

```

Email: ddunne@genetics.utah.edu

```

```

Insert Length: 10000 Std Error: 0.00

```

```

Plate: 0056 row: K column: 07

```

```

Seq primer: CGTTGTAAACGACGCCAGT

```

```

Class: plasmid ends

```

```

High quality sequence stop: 20.

```

```

Location/Qualifiers

```

```

1..20

```

```

/organism="Mus musculus"

```

```

/mol_type="genomic DNA"

```

```

/strains="C57BL/6J"

```

```

/db_xref="taxon:10090"

```

## FEATURES

## Source

```

/clone="UUGC2M0056K07"
/lab host="E. Coli strain XL10-Gold, T1-resistant, F-"
/sex="Male"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (G14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

```

## ORIGIN

```

Query Match 44.5%; Score 9.8; DB 8; Length 20;
Best Local Similarity 84.6%; Pred. No. 4.5e+06;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

Qy 9 CAGGTAGAAAAGC 21
    |||||
Db 14 CAGGCAGAAAAC 2

```

```

RESULT 22
AJ596498/c
LOCUS

```

```

DEFINITION
Arabidopsis thaliana T-DNA flanking sequence, left border, clone
435B03, genomic survey sequence.

```

```

ACCESSION AJ596498

```

```

VERSION AJ596498.1 GI:37946126

```

```

KEYWORDS GSS; left border; T-DNA flanking sequence.

```

```

SOURCE Arabidopsis thaliana (thale cress)

```

```

ORGANISM Arabidopsis thaliana

```

```

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsi.

```

## REFERENCE

## AUTHORS

```

Brunaud,V., Balzergue,S., Dubreucq,B., Aubourg,S., Samson,F.,
Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G.,
Lepiniec,L., Caboche,M. and Lecharny,A.

```

```

T-DNA integration into the Arabidopsis genome depends on sequences
of pre-insertion sites
EMBO Rep. 3 (12), 1152-1157 (2002)

```

```

JOURNAL MEDLINE

```

```

PUBMED 22363535

```

```

REFERENCE 12446565

```

```

2 (bases 1 to 20)

```

```

Balzergue,S.

```

```

Direct Submission

```

```

Submitted (23-OCT-2003) Balzergue S., UMRGV, INRA/CNRS, 2 rue
Gaston Cremieux, 91057 Evry cedex, FRANCE

```

```

PCR was performed on DNA from transformants of Arabidopsis thaliana
plants from INRA (Versailles). The DNA fragment(s) resulting from
the PCR were directly sequenced from the left or the right border
to determine the genomic sequence flanking the insertion. T-DNA
derived sequences were removed. Information to order the
corresponding mutant line and a link to a database providing a
graphical display of the insertion site are available at
http://dbsgap-versailles.inra.fr/publiclines/. This sequence has
been generated in the framework of the French plant genomics
program 'Genoplante' (http://www.genoplante.com and
http://genoplante-info.infobiogen.fr).

```

## COMMENT

## FEATURES

```

Location/Qualifiers

```

```

source
1. .20
/organism="Arabidopsis thaliana"
/mol_type="Genomic DNA"
/cultivar="Wassiliewskaja"
/db_xref="taxon:3702"
/clone="435B03"
/clone_lib="Arabidopsis thaliana T-DNA insertion lines"
misc_feature
1. .20
/note="T-DNA flanking sequence
left border"

ORIGIN
Query Match      44.5%; Score 9.8; DB 9; Length 20;
Best Local Similarity 84.6%; Pred. No. 4.5e+06;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY    7 TACAGGTACAAA 19
      |||||
Db    16 TTCAGGTATAAA 4

RESULT 23
AZ430939          21 bp   DNA       linear     GSS 03-OCT-2000
LOCUS             1M0215E12R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
DEFINITION        clone UUGC1M0215E12 R, genomic survey sequence.
ACCESSION         AZ430939
VERSION           AZ430939.1 GI:10554952
KEYWORDS          GSS.
SOURCE            Mus musculus (house mouse)
ORGANISM          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                  Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE         1 (bases 1 to 21)
AUTHORS           Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
                  Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
                  Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
                  Niederhausern,A. and Wright,D.,Weiss,R.
TITLE             Mouse whole genome scaffolding with paired end reads from 10kb
                  plasmid inserts
JOURNAL           Unpublished (2000)
COMMENT           Contact: Robert B. Weiss
                  University of Utah Genome Center
                  Em. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                  84112, USA
                  Tel: 801 585 5606
                  Fax: 801 585 7177
                  Email: ddunn@genetics.utah.edu
                  Insert Length: 10000 Std Error: 0.00
                  Plate: 0215 row: E column: 12
                  Seq primer: CACACAGGAACAGCTATGACC
                  Class: plasmid ends
                  High quality sequence stop: 21.
FEATURES          Location/Qualifiers
                    1..21
                     /organism="Mus musculus"
                     /mol_type="Genomic DNA"
                     /strain="C57BL/6J"
                     /db_xref="taxon:10090"
                     /clone="UUGC1M0215E12"
                     /sex="Male"
                     /lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
                     /clone_lib="Mouse 10kb plasmid UUGC1M library"
                     /note="Vector: PWB42nv; Purified genomic DNA from M.
                           musculus C57BL/6J (male) was obtained from the Jackson
                           Laboratory Mouse DNA Resource
                           (http://www.jax.org/resources/documents/dnares/). The DNA
                           was hydrodynamically sheared by repeated passage through a
                           0.005 inch orifice at constant velocity. The sheared DNA
                           was blunt end-repaired with T4 DNA polymerase and T4
                           polynucleotide kinase. Adaptor oligonucleotides were
                           ligated to the blunt ends in high molar excess. The
```

adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 44.5%; Score 9.8; DB 8; Length 21;  
Best Local Similarity 84.6%; Pred. No. 4.5e+06;  
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 9 CAGGTAGAAAAGC 21  
|||||  
Db 5 CATGTAAAAAAGC 17

## RESULT 25

AZ786362 22 bp DNA linear GSS 16-FEB-2001  
LOCUS 2M0031N16R Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
DEFINITION clone UUGC2M0031N16 R, genomic survey sequence.

ACCESSION AZ786362  
VERSION AZ786362.1 GI:12924044

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

## ORGANISM

Mus musculus  
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 22)

REFERENCE  
AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
Reilly, M., Rose, R., Stokes, R., Tingey, A., von  
Niederhausern, A. and Wright, D., Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts

JOURNAL Unpublished (2000)

COMMENT Contact: Robert B. Weiss

University of Utah Genome Center

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0031 row: N column: 16

Seq primer: CACACGAGAACGCTATGACC

Class: plasmid ends

High quality sequence stop: 22.

Location/Qualifiers

## FEATURES

source

1..22

/organism="Mus musculus"

/mol\_type="genomic DNA"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="UUGC2M0031N16"

/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"

/clone\_lib="Mouse 10kb plasmid UUGC1M library"

/note="Vector: PWD42nv; Purified genomic DNA from M.

musculus C57BL/6J (male) was obtained from the Jackson

Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA

was hydrodynamically sheared by repeated passage through a

0.005 inch orifice at constant velocity. The sheared DNA

was blunt end-repaired with T4 DNA polymerase and T4

polynucleotide kinase. Adaptor oligonucleotides were

ligated to the blunt ends in high molar excess. The

adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 44.5%; Score 9.8; DB 8; Length 22;  
Best Local Similarity 84.6%; Pred. No. 4.6e+06;  
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TACAGGTAGAAA 19  
|||||  
Db 6 TACCGGTAAAAA 18

## RESULT 26

CL668834 19 bp DNA linear GSS 09-JUL-2004  
LOCUS PR10158d\_C09 - PR10158d.B21 (19) Note: Recurring String Mixed stage  
DEFINITION fosmid library of P. pacificus var. California Pristionchus  
pacificus genomic, genomic survey sequence.

ACCESSION CL668834

VERSION CL668834.1 GI:50164652

KEYWORDS GSS.

## SOURCE

Pristionchus pacificus

Pristionchus pacificus

Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida;

Neodiplogasteridae; Pristionchus.

1 (bases 1 to 19)

REFERENCE Srinivasan, J., Otto, G.W., Kahlow, U., Geisler, R. and Sommer, R.J.

AppADB: an AcedB database for the nematode satellite organism

Pristionchus pacificus

Nucleic Acids Res. 32 (1), D421-D422 (2004)

Contact: Sommer RJ

Evolutionary Biology

Max-Planck-Institute for Developmental Biology

Spemannstr. 37-39, Tuebingen D-72076, Germany

Tel: 00497071601371

Fax: 00497071601498

Email: ralf.sommer@tuebingen.mpg.de

This library was generated at Caltech, Pasadena, USA and end

sequenced at Vancouver, Canada.

Seq primer: T7

Class: fosmid ends.

Location/Qualifiers

1..19

/organism="Pristionchus pacificus"

/mol\_type="genomic DNA"

/strain="California"

/db\_xref="taxon:54126"

/clone\_lib="Mixed stage fosmid library of P. pacificus

var. California"

/note="Vector: pEpifos-5 Fosmid vector"

Query Match 43.6%; Score 9.6; DB 9; Length 19;

Best Local Similarity 75.0%; Pred. No. 5.6e+06;

Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 6 TTACAGGTAGAAAAGC 21

|||||

Db 4 TTAAGGTAGAACGCGC 19

## RESULT 27

AZ396022

LOCUS

20 bp DNA linear GSS 03-OCT-2000

```

DEFINITION      1M0160J20F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
                  clone UUGC1M0160J20 F, genomic survey sequence.
ACCESSION       AZ396022
VERSION         AZ396022.1 GI:10511094
KEYWORDS        GSS.
SOURCE          Mus musculus (house mouse)
ORGANISM        Mus musculus
REFERENCE       1 (bases 1 to 20)
AUTHORS         Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
                  Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
                  Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
                  Niederhausern,A. and Wright,D.,Weiss,R.
TITLE           Mouse whole genome scaffolding with paired end reads from 10kb
                  plasmid inserts
JOURNAL         Unpublished (2000)
COMMENT         Contact: Robert B. Weiss
                  University of Utah Genome Center
                  University of Utah
                  Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                  84112, USA
                  Tel: 801 585 5606
                  Fax: 801 585 7177
                  Email: ddunn@genetics.utah.edu
                  Insert Length: 10000 Std Error: 0.00
                  Plate: 0160 row: J column: 20
                  Seq primer: CGTTGTAACGACGCGCAGT
                  Class: plasmid ends
                  High quality sequence stop: 20.
FEATURES        Location/Qualifiers
                  1..20
                    /organism="Mus musculus"
                    /mol_type="genomic DNA"
                    /strain="C57BL/6J"
                    /db_xref="taxon:10090"
                    /clone="UUGC1M0160J20"
                    /sex="Male"
                    /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
                    /clone_lib="Mouse 10kb plasmid UUGC1M library"
                    /note="Vector: PWD42nv; Purified genomic DNA from M.
                    musculus C57Bl/6J (male) was obtained from the Jackson
                    Laboratory Mouse DNA Resource
                    (http://www.jax.org/resources/documents/dnares/). The DNA
                    was hydrodynamically sheared by repeated passage through a
                    0.005 inch orifice at constant velocity. The sheared DNA
                    was blunt end-repaired with T4 DNA polymerase and T4
                    polynucleotide kinase. Adaptor oligonucleotides were
                    ligated to the blunt ends in high molar excess. The
                    adaptor DNA was purified and size-selected for a 9.5 to
                    10.5 kb range using preparative agarose gel
                    electrophoresis. Vector DNA was prepared from a derivative
                    of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
                    inducible derivative of plasmid R1. The vector was ligated
                    with adaptors complementary to the insert adaptors and
                    purified. The sheared, adaptor mouse DNA was annealed to
                    adaptor vector DNA, and transformed into
                    chemically-competent E. coli XL10-Gold (Stratagene) cells
                    and selected for ampicillin resistance."
ORIGIN
Query Match      43.6%; Score 9.6; DB 8; Length 20;
Best Local Similarity 75.0%; Pred. No. 5.6e+06;
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Oy      3  ATGTTACAGGTAGAAA 18
        |||||
Db      5  ATGTTACATCTGAAA 20

RESULT 28
AZ787298
LOCUS      A2787298          20 bp      DNA      linear      GSS 16-FEB-2001

```

```

DEFINITION      2M0033016F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
                  clone UUGC2M0033016 F, genomic survey sequence.
ACCESSION       AZ787298
VERSION         AZ787298.1 GI:12925926
KEYWORDS        GSS.
SOURCE          Mus musculus (house mouse)
ORGANISM        Mus musculus
REFERENCE       1 (bases 1 to 20)
AUTHORS         Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
                  Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
                  Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
                  Niederhausern,A. and Wright,D.,Weiss,R.
TITLE           Mouse whole genome scaffolding with paired end reads from 10kb
                  plasmid inserts
JOURNAL         Unpublished (2000)
COMMENT         Contact: Robert B. Weiss
                  University of Utah Genome Center
                  University of Utah
                  Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                  84112, USA
                  Tel: 801 585 5606
                  Fax: 801 585 7177
                  Email: ddunn@genetics.utah.edu
                  Insert Length: 10000 Std Error: 0.00
                  Plate: 0033 row: O column: 16
                  Seq primer: CGTTGTAACGACGCGCAGT
                  Class: plasmid ends
                  High quality sequence stop: 20.
FEATURES        Location/Qualifiers
                  1..20
                    /organism="Mus musculus"
                    /mol_type="genomic DNA"
                    /strain="C57BL/6J"
                    /db_xref="taxon:10090"
                    /clone="UUGC2M0033016"
                    /sex="Male"
                    /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
                    /clone_lib="Mouse 10kb plasmid UUGC1M library"
                    /note="Vector: PWD42nv; Purified genomic DNA from M.
                    musculus C57Bl/6J (male) was obtained from the Jackson
                    Laboratory Mouse DNA Resource
                    (http://www.jax.org/resources/documents/dnares/). The DNA
                    was hydrodynamically sheared by repeated passage through a
                    0.005 inch orifice at constant velocity. The sheared DNA
                    was blunt end-repaired with T4 DNA polymerase and T4
                    polynucleotide kinase. Adaptor oligonucleotides were
                    ligated to the blunt ends in high molar excess. The
                    adaptor DNA was purified and size-selected for a 9.5 to
                    10.5 kb range using preparative agarose gel
                    electrophoresis. Vector DNA was prepared from a derivative
                    of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
                    inducible derivative of plasmid R1. The vector was ligated
                    with adaptors complementary to the insert adaptors and
                    purified. The sheared, adaptor mouse DNA was annealed to
                    adaptor vector DNA, and transformed into
                    chemically-competent E. coli XL10-Gold (Stratagene) cells
                    and selected for ampicillin resistance."
ORIGIN
Query Match      43.6%; Score 9.6; DB 8; Length 20;
Best Local Similarity 75.0%; Pred. No. 5.6e+06;
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Oy      6  TTACAGGTAGAAAAGC 21
        |||||
Db      2  TTACAGCATGATAAGC 17

RESULT 29
CL687844/c
LOCUS      CL687844          20 bp      DNA      linear      GSS 09-JUL-2004

```



```

DEFINITION PR10147d G03.2 - PR10147d.BR (20) Mixed stage fosmid library of P.
pacificus var. California Pristionchus pacificus genomic, genomic
survey sequence.
ACCESSION CL687844.1 GI:50196717
VERSION CL687844.1
KEYWORDS GSS.
SOURCE Pristionchus pacificus
ORGANISM Pristionchus pacificus
          Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida;
          Neodiplogasteridae; Pristionchus.
REFERENCE 1 (bases 1 to 20)
AUTHORS Srinivasan,J., Otto,G.W., Kahlow,U., Geisler,R. and Sommer,R.J.
TITLE AppaDB: an AcedB database for the nematode satellite organism
JOURNAL Pristionchus pacificus
COMMENT Nucleic Acids Res. 32 (1), D421-D422 (2004)
Contact: Sommer RJ
Evolutionary Biology
Max-Planck-Institute for Developmental Biology
Spemannstr. 37-39, Tuebingen D-72076, Germany
Tel: 00497071601371
Fax: 00497071601498
Email: ralf.sommer@uebingen.mpg.de
This library was generated at Caltech, Pasadena, USA and end
sequenced at Vancouver, Canada.
Seq primer: T7
Class: fosmid ends.
FEATURES             Location/Qualifiers
     source           1..20
                     /organism="Pristionchus pacificus"
                     /mol_type="genomic DNA"
                     /strain="California"
                     /db_xref="taxon:54126"
                     /clone_lib="Mixed stage fosmid library of P. pacificus
                     var. California"
                     /note="Vector: pBpifos-5 Fosmid vector"
ORIGIN
Query Match      43.6%; Score 9.6; DB 9; Length 20;
Best Local Similarity 75.0%; Pred. No. 5.6e+06;
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Qy 3 ATGTTACAGGTAGAA 18
    |||||
Db 20 AGGTAAGAGGAGAA 5

RESULT 30
AG197947/c
LOCUS AG197947
DEFINITION Pan troglodytes DNA, clone: RP43-078H02.T7, genomic survey
sequence.
ACCESSION AG197947
VERSION AG197947.1 GI:45230123
KEYWORDS GSS.
SOURCE Pan troglodytes (chimpanzee)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Pan.
REFERENCE 1
AUTHORS Park,H., Kim,Y., Kim,S., Han,Y., Woo,T., Park,K., Eun,C.J.,
Hoon,S.T., Chu,M., Kim,H., Joo,S., Kim,C., Song,W. and Yoo,H.
TITLE BAC end sequences of Library RP-43
JOURNAL Unpublished
2 (bases 1 to 21)
Park,H., Kim,Y., Kim,S., Han,Y., Woo,T., Park,K., Eun,C.J.,
Hoon,S.T., Chu,M., Kim,H., Joo,S., Kim,C., Song,W. and Yoo,H.
BAC end sequences of Library RP-43
Direct Submission
Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of
Bioscience and Biotechnology (KRIBB), Genome Research Center (GRC);
52, Oun-dong, Yuseong-gu, Daejeon 305-333, Korea
(E-mail: redstone@mail.krribb.re.kr, URL:http://phs.grc.krribb.re.kr/,
Tel:82-42-866-7181, Fax:82-42-860-4409)
Clones are derived from the chimpanzee BAC library RP-43 This BAC
COMMENT
end was generated during the R&D process and may have higher chance
of clone tracking errors.
PRIMERS
Sequencing: T7
LIBRARY
Vector : pBACe3.6
R.Site 1 : EcoRI
R.Site 2 : EcoRI.
Location/Qualifiers
1..21
/organism="Pan troglodytes"
/mol_type="genomic DNA"
/db_xref="taxon:9598"
/clone="RP43-078H02.T7"
/sex="male"
/cell_type="lymphocytes"
/clone_lib="RP-43 Chimpanzee Male BAC Library"
FEATURES             source
Qy 7 TACAGGTAGAAAGCC 22
    |||||
Db 21 TAGAGGTAGGCAATC 6

RESULT 31
AG312945/c
LOCUS AG312945
DEFINITION 190029P03F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0029P03 F, genomic survey sequence.
ACCESSION AG312945
VERSION AG312945.1 GI:10357381
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 19)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weisse,R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0029 row: P column: 03
Seq primer: CGTGTAAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
1..19
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/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0029P03"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, P-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PMD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson

```

Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 [GII4732114|gb|AF129072.1], a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 42.7%; Score 9.4; DB 8; Length 19;  
Best Local Similarity 90.9%; Pred. No. 7e+06;  
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 CAGGTAGAAAA 19  
||| |||||  
Db 11 CATGTAGAAAA 1

RESULT 32  
AZ774536 19 bp DNA linear GSS 16-FEB-2001  
LOCUS 2M0004P01F Mouse 10kb plasmid UUC1M library Mus musculus genomic  
DEFINITION clone UUC2M0004P01 F, genomic survey sequence.

ACCESSION AZ774536  
VERSION AZ774536.1 GI:12900089  
KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 19)

AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Kelly, M., Rose, R., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A., and Wright, D., Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL Unpublished (2000)

COMMENT Contact: Robert B. Weiss  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA

Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunne@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0004 row: P column: 01

Seq primer: CATTGTAAACGACGCCAGT

Class: plasmid ends

High quality sequence stop: 19.

Location/Qualifiers

1..19

/organism="Mus musculus"

/mol\_type="genomic DNA"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="UUC2M0004P01"

/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"

/clone\_lib="Mouse 10kb plasmid UUC1M library"

/note="Vector: pWD42nv; Purified genomic DNA from M.

musculus C57BL/6J (male) was obtained from the Jackson

Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 [GII4732114|gb|AF129072.1], a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 42.7%; Score 9.4; DB 8; Length 19;  
Best Local Similarity 68.4%; Pred. No. 7e+06;  
Matches 13; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAAGC 21  
||| ||| ||| |||  
Db 1 ATCTTAAAAAAAAGC 19

RESULT 33

AJ796099

LOCUS

DEFINITION AJ796099 Antirrhinum majus whole plant Antirrhinum majus cDNA clone 018\_3\_09\_p24, mRNA sequence.

ACCESSION AJ796099

VERSION AJ796099.1

KEYWORDS EST.

SOURCE Antirrhinum majus (snapdragon)

ORGANISM Antirrhinum majus

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;

asterids; lamiales; Plantaginaceae; Antirrhineae;

Antirrhinum.

REFERENCE 1 (bases 1 to 20)

AUTHORS Zachgo, S., Stueber, K., Saedler, H., Sommer, H. and Schwarz-Sommer, Z.

TITLE Antirrhinum EST collection

JOURNAL Unpublished (2003)

COMMENT Contact: Schwarz-Sommer Z

Molekulare Pflanzengenetik

MPI fuer Zuechtungsforschung

Carl-von-Linne Weg 10, D-50829, Germany.

Location/Qualifiers

1..20

/organism="Antirrhinum majus"

/mol\_type="mRNA"

/db\_xref="taxon:4151"

/clone="018\_3\_09\_p24"

/tissue\_type="whole plant"

/clone\_lib="Antirrhinum majus whole plant"

ORIGIN

Query Match 42.7%; Score 9.4; DB 1; Length 20;  
Best Local Similarity 68.4%; Pred. No. 7e+06;  
Matches 13; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 3 ATGTTACAGGTAGAAAAGC 21  
||| ||| ||| |||  
Db 2 ATATTGGAGCTAGAGAGC 20

RESULT 34

AZ428984/c

LOCUS

DEFINITION IM0212P03R Mouse 10kb plasmid UUC1M library Mus musculus genomic

21 bp DNA linear GSS 03-OCT-2000

clone UUGC1M0212P03 R, genomic survey sequence.

ACCESSION  
AZ428984  
VERSION  
AZ428984.1 GI:10552913  
KEYWORDS  
GSS.  
SOURCE  
Mus musculus (house mouse)  
ORGANISM  
Mus musculus  
REFERENCE  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 21)  
AUTHORS  
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,  
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von  
Niederhauser,A. and Wright,D.,Weiss,R.  
TITLE  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
JOURNAL  
Unpublished (2000)  
COMMENT  
Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0212 row: P column: 03  
Seq primer: CACACAGGAAACAGCTATGACC  
Class: plasmid ends  
High quality sequence stop: 21.  
FEATURES  
Location/Qualifiers  
1..21  
/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC1M0212P03"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/note="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adapted DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of PWD42 (gi|4732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adapted mouse DNA was annealed to  
adapted vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

# ORIGIN

Query Match 42.7%; Score 9.4; DB 8; Length 21;  
Best Local Similarity 68.4%; Pred. No. 7.1e+06;  
Matches 13; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
Qy 2 CATGTTACAGGTAGAAAAG 20  
Db 21 CATATTTCCAGTCATAAAAG 3

RESULT 35  
AZ942905/c  
LOCUS  
DEFINITION 2M0203K13F Mouse 10kb plasmid UUGC2M library GSS 26-APR-2001  
22 bp DNA linear GSS 26-APR-2001

clone UUGC2M0203K13 F, genomic survey sequence.

ACCESSION  
AZ942905  
VERSION  
AZ942905.1 GI:13806556  
KEYWORDS  
GSS.  
SOURCE  
Mus musculus (house mouse)  
ORGANISM  
Mus musculus  
REFERENCE  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 22)  
AUTHORS  
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,  
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von  
Niederhauser,A. and Wright,D.,Weiss,R.  
TITLE  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
JOURNAL  
Unpublished (2000)  
COMMENT  
Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0203 row: K column: 13  
Seq primer: CGTTGTAACACGACGCCAGT  
Class: plasmid ends  
High quality sequence stop: 22.  
FEATURES  
Location/Qualifiers  
1..22  
/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC2M0203K13"  
/sex="Female"  
/lab\_host="E. coli strain XL10-Gold, T1-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC2M library"  
/note="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (female) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adapted DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of PWD42 (gi|4732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adapted mouse DNA was annealed to  
adapted vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

# ORIGIN

Query Match 42.7%; Score 9.4; DB 8; Length 22;  
Best Local Similarity 90.9%; Pred. No. 7.1e+06;  
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 10 AGGTAGAAAAG 20  
Db 13 AGGAAGAAAAG 3

RESULT 36  
TA82F07Q/c  
LOCUS  
DEFINITION T. brucei sheared genomic DNA clone 82f07, reverse sequence,  
22 bp DNA linear GSS 13-DEC-2000

genomic survey sequence.  
AL459970  
AL459970.1 GI:11860295  
GSS.  
Trypanosoma brucei  
Trypanosoma brucei  
Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;  
Trypanosoma.  
1 (bases 1 to 22)  
Hall, N., Bowman, S., Lennard, N.J., Doggett, J., Atkin, R., Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L., Melville, S.E., Rajandream, M.A. and Barrell, B.G.  
Direct Submission  
Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and nhl@sanger.ac.uk  
Constructed at the Institute for Genomic Research (TIGR), Rockville, MD. Genomic DNA isolated from a cloned population of Trypanosoma brucei (TRU927/4 GUTat 10.1) was mechanically sheared to give a tight size distribution (4 kb). The v + i method used for the library construction is described in detail in Smith, H. and Venter, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. In Genome Sequencing: A Practical Approach, eds. M. Vaudin and B. Barrell, Oxford University Press, 1999).  
Email: nrlay@tigr.org  
Details of T. brucei sequencing at the Sanger Centre are available at http://www.sanger.ac.uk/Projects/T\_brucei/.  
Location/Qualifiers  
1..22  
/organism="Trypanosoma brucei"  
/mol\_type="genomic DNA"  
/strain="TRU927"  
/db\_xref="taxon:5691"  
/clone="82f07"

Query Match 42.7%; Score 9.4; DB 9; Length 22;  
Best Local Similarity 90.9%; Pred. No. 7.1e+06;  
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCATGTTACAG 11  
| | | | | | | |  
19 GAATGTTACAG 9

RESULT 37  
CO780477/c  
LOCUS  
DEFINITION  
cDNA 57 similar to hypothetical protein, mRNA sequence.  
CO780477  
CO780477.1 GI:50996457  
EST.  
Ambystoma mexicanum (axolotl)  
Ambystoma mexicanum  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Caudata; Salamandroidea; Ambystomatidae; Ambystoma.  
1 (bases 1 to 19)  
Habermann, B., Rebin, A.G., Herklotz, S., Volkmer, M., Eckelt, K., Pehlke, K., Epplein, H.H., Schackert, H.K., Wiebe, G. and Tanaka, E.M.  
An Ambystoma mexicanum EST sequencing project: Analysis of 17,352 expressed sequence tags from embryonic and regenerating blastema cDNA libraries  
Genome Biol. (2004) In press  
Contact: Elly M. Tanaka  
Tanaka Lab  
Max Planck Institute of Molecular Cell Biology and Genetics, Dresden  
Pfothenhauerstrasse 108, 01307 Dresden, Germany  
Tel: 0049 351 210 2620

genomic survey sequence.  
AL459970  
AL459970.1 GI:11860295  
GSS.  
Trypanosoma brucei  
Trypanosoma brucei  
Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;  
Trypanosoma.  
1 (bases 1 to 22)  
Hall, N., Bowman, S., Lennard, N.J., Doggett, J., Atkin, R., Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L., Melville, S.E., Rajandream, M.A. and Barrell, B.G.  
Direct Submission  
Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and nhl@sanger.ac.uk  
Constructed at the Institute for Genomic Research (TIGR), Rockville, MD. Genomic DNA isolated from a cloned population of Trypanosoma brucei (TRU927/4 GUTat 10.1) was mechanically sheared to give a tight size distribution (4 kb). The v + i method used for the library construction is described in detail in Smith, H. and Venter, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. In Genome Sequencing: A Practical Approach, eds. M. Vaudin and B. Barrell, Oxford University Press, 1999).  
Email: nrlay@tigr.org  
Details of T. brucei sequencing at the Sanger Centre are available at http://www.sanger.ac.uk/Projects/T\_brucei/.  
Location/Qualifiers  
1..22  
/organism="Trypanosoma brucei"  
/mol\_type="genomic DNA"  
/strain="TRU927"  
/db\_xref="taxon:5691"  
/clone="82f07"

Query Match 42.7%; Score 9.4; DB 9; Length 22;  
Best Local Similarity 90.9%; Pred. No. 7.1e+06;  
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCATGTTACAG 11  
| | | | | | | |  
19 GAATGTTACAG 9

RESULT 37  
CO780477/c  
LOCUS  
DEFINITION  
cDNA 57 similar to hypothetical protein, mRNA sequence.  
CO780477  
CO780477.1 GI:50996457  
EST.  
Ambystoma mexicanum (axolotl)  
Ambystoma mexicanum  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Caudata; Salamandroidea; Ambystomatidae; Ambystoma.  
1 (bases 1 to 19)  
Habermann, B., Rebin, A.G., Herklotz, S., Volkmer, M., Eckelt, K., Pehlke, K., Epplein, H.H., Schackert, H.K., Wiebe, G. and Tanaka, E.M.  
An Ambystoma mexicanum EST sequencing project: Analysis of 17,352 expressed sequence tags from embryonic and regenerating blastema cDNA libraries  
Genome Biol. (2004) In press  
Contact: Elly M. Tanaka  
Tanaka Lab  
Max Planck Institute of Molecular Cell Biology and Genetics, Dresden  
Pfothenhauerstrasse 108, 01307 Dresden, Germany  
Tel: 0049 351 210 2620

musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 [gi|4732114|gb|AF129072.1], a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 41.8%; Score 9.2; DB 8; Length 19;  
Best Local Similarity 78.6%; Pred. No. 8.7e+06;  
Matches 11; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 7 TACAGGTAGAAAAG 20  
|||||  
Db 17 TCCTAGTAGAAGC 4

RESULT 39  
AZ817291  
LOCUS  
DEFINITION  
2M0086P05R Mouse 10kb plasmid UUC1M library Mus musculus genomic clone UUGC2M0086P05 R, genomic survey sequence.

ACCESSION  
AZ817291

VERSION  
GSS.

SOURCE  
Mus musculus (house mouse)

ORGANISM  
Mus musculus

REFERENCE  
AUTHORS  
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausen, A. and Wright, D., Weiss, R.

TITLE  
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL  
COMMENT  
Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: [ddunn@genetics.utah.edu](mailto:ddunn@genetics.utah.edu)

Insert Length: 10000 Std Error: 0.00

Plate: 0086 row: F column: 05

Seq primer: CACACAGGAAACAGCTATGACC

Class: plasmid ends

High quality sequence stop: 19.

Location/Qualifiers

1. .19

/organism="Mus musculus"

/mol\_type="genomic DNA"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="UUGC2M0086P05"

/sex="Male"

/lab host="E. Coli strain XL10-Gold, T1-resistant, F-"

/clone lib="Mouse 10kb plasmid UUC1M library"

/note="Vector: PWD42nv; Purified genomic DNA from M.

source

Query Match 41.8%; Score 9.2; DB 1; Length 21;

Best Local Similarity 73.3%; Pred. No. 8.9e+06;

Matches 11; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 [gi|4732114|gb|AF129072.1], a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 41.8%; Score 9.2; DB 8; Length 19;  
Best Local Similarity 78.6%; Pred. No. 8.7e+06;  
Matches 11; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 9 CAGGTAGAAAAGCC 22  
|||||  
Db 4 CAGGCACAAAAGCC 17

## RESULT 40

AU008312/c

LOCUS

DEFINITION

AU008312 Schizosaccharomyces pombe late log phase cDNA

Schizosaccharomyces pombe cDNA clone spc03191, mRNA sequence.

ACCESSION

AU008312

VERSION

AU008312.1 GI:3344770

KEYWORDS

EST.

SOURCE

ORGANISM

Schizosaccharomyces pombe (fission yeast)

Schizosaccharomyces pombe

Eukaryota; Fungi; Ascomycota; Schizosaccharomycetes;

Schizosaccharomycetales; Schizosaccharomycetaceae;

Schizosaccharomycetes.

1 (bases 1 to 21)

Morimyo, M. and Mita, K.

Identification of expressed sequence tags of Schizosaccharomycetes

pombe

Unpublished (1998)

Contact: Mitsuo Morimyo

Genome Research Group

National Institute of Radiological Sciences

9-1, Anagawa-4-chome, Inage-Ku, Chiba, Chiba 263-8555, Japan

Email: [morimyo@nirs.go.jp](mailto:morimyo@nirs.go.jp).

Location/Qualifiers

1. .21

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/mol\_type="mRNA"

/strain="972"

/db\_xref="taxon:4896"

/clone="spc03191"

/sex="h minus"

/note="Vector: M13mp19; The cDNA library of

Schizosaccharomyces pombe was prepared by cloning cDNA

into the SmaI site of M13mp19 DNA and the direction of DNA

sequences was not always from 5' to 3'. The cDNA data of

Schizosaccharomyces pombe are available for searching on

the world wide web. (URL, <http://www.nirs.go.jp>)"

source

Query Match 41.8%; Score 9.2; DB 1; Length 21;

Best Local Similarity 73.3%; Pred. No. 8.9e+06;

Matches 11; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 6 TTACAGGTAGAAAAG 20  
| | | | | | | | | |  
Db 18 TNACAGCAGGAAAG 4

Search completed: August 12, 2005, 09:54:57  
Job time : 1787 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 09:25:17 ; Search time 1566 Seconds  
(without alignments)  
649.783 Million cell updates/sec

Title: US-09-743-825-8

Perfect score: 21

Sequence: 1 ctggcgatctctgaagagctctg 21

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 892778

Minimum DB seq length: 0

Maximum DB seq length: 21

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

GenEmbl.\*

1: gb\_ba.\*

2: gb\_hhg.\*

3: gb\_in.\*

4: gb\_ov.\*

5: gb\_ov.\*

6: gb\_pat.\*

7: gb\_ph.\*

8: gb\_pl.\*

9: gb\_pt.\*

10: gb\_ro.\*

11: gb\_sts.\*

12: gb\_sy.\*

13: gb\_un.\*

14: gb\_vi.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	13	61.9	20	6	AR116690 Sequence
2	13	61.9	20	6	AR275648 Sequence
3	12.8	61.0	17	6	AR402108 Sequence
4	12.8	61.0	17	6	BD067608 Enzymatic
5	12.8	61.0	20	6	AL7234 Oligonucleo
6	12.8	61.0	20	6	AR027617 Sequence
7	12.2	58.1	17	6	AR402109 Sequence
8	12.2	58.1	17	6	AX690585 Sequence
9	12.2	58.1	17	6	BD067609 Enzymatic
10	12.2	58.1	20	6	AR070817 Sequence
11	12.2	58.1	20	6	AR104505 Sequence
12	12.2	58.1	20	6	AX962823 Sequence
13	12	57.1	17	6	AX737882 Sequence
14	11.8	56.2	16	6	AR328335 Sequence
15	11.8	56.2	17	6	AR007304 Sequence
16	11.8	56.2	17	6	AR053990 Sequence
17	11.8	56.2	17	6	AR135992 Sequence
18	11.8	56.2	17	6	I22067 Sequence 4
19	11.8	56.2	17	6	AR327036 Sequence

93 10.8 51.4 17 6 BD255269  
 94 10.8 51.4 17 6 BD255495  
 95 10.8 51.4 17 6 BD255496  
 96 10.8 51.4 17 6 BD255497  
 97 10.8 51.4 17 6 AR186193  
 98 10.8 51.4 17 6 AR322824  
 99 10.8 51.4 17 6 AX217098  
 c 100 10.8 51.4 17 6 AX217837

BD255269 Regulatio  
 BD255495 Regulatio  
 BD255496 Regulatio  
 BD255497 Regulatio  
 AR186193 Sequence  
 AR322824 Sequence  
 AX217098 Sequence  
 AX217837 Sequence

## ALIGNMENTS

RESULT 1  
 LOCUS AR116690 20 bp DNA linear PAT 16-MAY-2001  
 DEFINITION Sequence 3 from patent US 6133434.  
 ACCESSION AR116690  
 VERSION AR116690.1 GI:14097012  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 20)  
 AUTHORS Buell,G.Nutter., Surprenant,A. and Kawashima,E.  
 TITLE Purinergic receptor  
 JOURNAL Patent: US 6133434-A 3 17-OCT-2000;  
 FEATURES Location/Qualifiers  
 source 1..20

ORIGIN  
 Query Match 61.9%; Score 13; DB 6; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 1.2e+05;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 3 GCGGTATCTGAAG 15  
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 Db 1 GCGGTATCTGAAG 13

RESULT 2  
 LOCUS AR275648 20 bp DNA linear PAT 10-APR-2003  
 DEFINITION Sequence 3 from patent US 6509163.  
 ACCESSION AR275648  
 VERSION AR275648.1 GI:29709099  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 20)  
 AUTHORS Buell,G.N., Surprenant,A. and Kawashima,E.  
 TITLE Methods of screening modulators of mammalian P2X7 purinergic  
 JOURNAL Patent: US 6509163-A 3 21-JAN-2003;  
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 Best Local Similarity 100.0%; Pred. No. 1.2e+05;  
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RESULT 3

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 LOCUS AR402108 17 bp DNA linear PAT 18-DEC-2003  
 DEFINITION Sequence 448 from patent US 6623962.  
 ACCESSION AR402108  
 VERSION AR402108.1 GI:40149558  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 17)  
 AUTHORS Akhtar,S., Fell,P. and McSwiggen,J.A.  
 TITLE Enzymatic nucleic acid treatment of diseases of conditions related  
 to levels of epidermal growth factor receptors  
 JOURNAL Patent: US 6623962-A 448 23-SEP-2003;  
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ORIGIN  
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 Best Local Similarity 87.5%; Pred. No. 1.6e+05;  
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 6 GTATCTGAAGAGTCTG 21  
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 Db 16 GTATCGAAGAGTCTG 1

RESULT 4  
 LOCUS BD067608/c 17 bp RNA linear PAT 27-AUG-2002  
 DEFINITION Enzymatic nucleic acid treatment of diseases or conditions related  
 to levels of epidermal growth factor receptors.  
 ACCESSION BD067608  
 VERSION BD067608.1 GI:22613211  
 KEYWORDS JP 2001511003-A/448.  
 SOURCE unidentified  
 ORGANISM unidentified

REFERENCE 1 (bases 1 to 17)  
 AUTHORS Akhtar,S., Fell,P. and McSwiggen,J.A.  
 TITLE Enzymatic nucleic acid treatment of diseases or conditions related  
 to levels of epidermal growth factor receptors  
 JOURNAL Patent: JP 2001511003-A 448 07-AUG-2001;  
 COMMENT RIBOZYME PHARMACEUTICALS INC,ASTON UNIV  
 OS Unidentified  
 PN JP 2001511003-A/448  
 PD 07-AUG-2001  
 PF 14-JAN-1998 JP 1998532913  
 PR 31-JAN-1997 US 60/036476 04-DEC-1997 US 08/985162 PI  
 SAGHIR AKHTAR,PATRICIA FELL,JAMES A MCSWIGGEN PC  
 C12N9/00,C07K14/71  
 CC Strandedness: Single;  
 CC Topology: Linear;  
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 related to

CC levels of epidermal growth factor receptors  
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PD 07-AUG-2001  
PP 14-JAN-1998 JP 1998532913  
PR 31-JAN-1997 US 60/036476,04-DEC-1997 US 08/985162 P1  
SAGHIR AKHTAR,PATRICIA FELL,JAMES A MCSWIGGEN PC  
C12N9/00,C07K14/71  
CC Strandedness: Single;  
CC Topology: Linear;  
CC Enzymatic nucleic acid treatment of diseases or conditions CC  
related to  
CC levels of epidermal growth factor receptors  
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Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Db 17 GGGTATCGAAGAGTCT 1

RESULT 10  
AR070817  
LOCUS AR070817 20 bp DNA linear PAT 18-FEB-2000  
DEFINITION Sequence 8 from patent US 5908773.  
ACCESSION AR070817  
VERSION AR070817.1 GI:7221705  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE  
1 (bases 1 to 20)  
AUTHORS Cesarman,E., Arvanitakis,L., Knowles,D.M. and Mesri,E.  
TITLE KSHV positive cell lines  
JOURNAL Patent: US 5908773-A 8 01-JUN-1999;  
FEATURES  
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Location/Qualifiers  
/organism='unknown'  
/mol\_type='unassigned DNA'

ORIGIN  
Query Match 58.1%; Score 12.2; DB 6; Length 20;  
Best Local Similarity 82.4%; Pred. No. 3.3e+05;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 CGTATCTGAAGAGTCTG 21  
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Db 1 CGGAGCTAAAGAGTCTG 17

RESULT 11  
AR104505  
LOCUS AR104505 20 bp DNA linear PAT 14-FEB-2001  
DEFINITION Sequence 8 from patent US 6093806.  
ACCESSION AR104505  
VERSION AR104505.1 GI:12817213  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE  
1 (bases 1 to 20)  
AUTHORS Cesarman,E. and Knowles,D.M.  
TITLE DNA encoding proteins of Kaposi's sarcoma associated herpesvirus  
JOURNAL Patent: US 6093806-A 8 25-JUL-2000;  
FEATURES  
Location/Qualifiers

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ORIGIN  
Query Match 58.1%; Score 12.2; DB 6; Length 20;  
Best Local Similarity 82.4%; Pred. No. 3.3e+05;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 CGTATCTGAAGAGTCTG 21  
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Db 1 CGGAGCTAAAGAGTCTG 17

RESULT 12  
AX962823/c  
LOCUS AX962823 20 bp DNA linear PAT 14-JAN-2004  
DEFINITION Sequence 79 from Patent WO03104458.  
ACCESSION AX962823  
VERSION AX962823.1 GI:40881936  
KEYWORDS  
SOURCE synthetic construct  
ORGANISM synthetic construct  
other sequences; artificial sequences.  
REFERENCE  
1  
AUTHORS Baker,B.F., Freier,S.M. and Dobie,K.W.  
TITLE Antisense modulation of il-1 receptor-associated kinase-1  
JOURNAL Patent: WO 03104458-A 79 18-DEC-2003;  
FEATURES  
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/db\_xref='taxon:32630'  
/note='Antisense Oligonucleotide'

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Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGTCT 20  
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Db 17 GCGTAGCTGGAGGTCT 1

RESULT 13  
AX737882/c  
LOCUS AX737882 17 bp DNA linear PAT 08-MAY-2003  
DEFINITION Sequence 3472 from Patent WO03025177.  
ACCESSION AX737882  
VERSION AX737882.1 GI:30517170  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE  
1  
AUTHORS Telerman,A., Amson,R. and Tuijinder,M.  
TITLE Sequences involved in phenomena of tumour suppression, tumour  
reversion, apoptosis and/or resistance to viruses and the use  
thereof as medicaments  
JOURNAL Patent: WO 03025177-A 3472 27-MAR-2003;  
FEATURES  
source  
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Location/Qualifiers  
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/mol\_type='unassigned DNA'  
/db\_xref='taxon:9606'

ORIGIN  
Query Match 57.1%; Score 12; DB 6; Length 17;



Query Match 56.2%; Score 11.8; DB 6; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5.5e+05;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GCGCTATCTGAAGAG 17  
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Db 1 GCGCTATCTGACAG 15

RESULT 19  
AR327036  
LOCUS AR327036 17 bp RNA linear PAT 17-AUG-2003  
DEFINITION Sequence 4438 from patent US 6566127.  
ACCESSION AR327036  
VERSION AR327036.1 GI:33712844  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Pavco,P., McSwiggen,J.A., Stinchcomb,D.T. and Escobedo,J.  
TITLE Method and reagent for the treatment of diseases or conditions related to levels of vascular endothelial growth factor receptor  
JOURNAL Patent: US 6566127-A 4438 20-MAY-2003;  
FEATURES Location/Qualifiers  
source 1..17  
/organism="unknown"  
/mol\_type="unassigned RNA"

ORIGIN

Query Match 56.2%; Score 11.8; DB 6; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5.5e+05;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GCGCTATCTGAAGAG 17  
|||||  
Db 1 GACGTRACTGAAGAG 15

RESULT 20  
AR402107/c  
LOCUS AR402107 17 bp DNA linear PAT 18-DEC-2003  
DEFINITION Sequence 447 from patent US 6623962.  
ACCESSION AR402107  
VERSION AR402107.1 GI:40149557  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Akhtar,S., Fell,P. and McSwiggen,J.A.  
TITLE Enzymatic nucleic acid treatment of diseases or conditions related to levels of epidermal growth factor receptors  
JOURNAL Patent: US 6623962-A 447 23-SEP-2003;  
FEATURES Location/Qualifiers  
source 1..17  
/organism="unknown"  
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ORIGIN

Query Match 56.2%; Score 11.8; DB 6; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5.5e+05;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TATCTGAAGAGTCTG 21  
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Db 17 TATCGAAGAGTCTG 3

RESULT 21  
AX217836/c  
LOCUS AX217836 17 bp RNA linear PAT 07-SEP-2001  
DEFINITION Sequence 3278 from Patent WO0159103.

ACCESSION AX217836  
VERSION AX217836.1 GI:15527897  
KEYWORDS  
SOURCE synthetic construct  
ORGANISM synthetic construct  
other sequences; artificial sequences.

REFERENCE 1  
AUTHORS Blatt,L., McSwiggen,J. and Chowrira,B.M.  
TITLE Method and reagent for the modulation and diagnosis of cd20 and nogo gene expression  
JOURNAL Patent: WO 0159103-A 3278 16-AUG-2001;  
RIBOZYME PHARMACEUTICALS, INC. (US) ; Blatt, Lawrence (US) ; McSwiggen, James (US) ; Chowrira, Bharat M. (US)  
FEATURES Location/Qualifiers  
source 1..17  
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/db\_xref="taxon:32630"  
/notes="Nucleic Acid"

ORIGIN

Query Match 56.2%; Score 11.8; DB 6; Length 17;  
Best Local Similarity 86.7%; Pred. No. 5.5e+05;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGT 18  
|||||  
Db 16 GCGTATGTGCAGAGT 2

RESULT 22  
BD067607/c  
LOCUS BD067607 17 bp RNA linear PAT 27-AUG-2002  
DEFINITION Enzymatic nucleic acid treatment of diseases or conditions related to levels of epidermal growth factor receptors.

ACCESSION BD067607  
VERSION BD067607.1 GI:22613210  
KEYWORDS JP 2001511003-A/447.  
SOURCE unidentified  
ORGANISM unidentified  
unclassified.

REFERENCE 1 (bases 1 to 17)  
AUTHORS Akhtar,S., Fell,P. and Mcswiggen,J.A.  
TITLE Enzymatic nucleic acid treatment of diseases or conditions related to levels of epidermal growth factor receptors  
JOURNAL Patent: JP 2001511003-A 447 07-AUG-2001;  
RIBOZYME PHARMACEUTICALS INC./ASTON UNIV  
COMMENT OS Unidentified  
PN JP 2001511003-A/447  
PD 07-AUG-2001  
PP 14-JAN-1998 JP 1998532913  
PR 31-JAN-1997 US 60/036476,04-DEC-1997 US 08/985162 PI  
SAGHIR AKHTAR,PATRICIA FELL,JAMES A MCSWIGGEN PC  
C12N9/00,C07K14/71  
CC Strandedness: Single;  
CC Topology: Linear;  
CC Enzymatic nucleic acid treatment of diseases or conditions related to

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ORIGIN

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Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy 7 TATCTGAAGAGTCTG 21
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Db 17 TATCGAAGAGTCTG 3

RESULT 23
LOCUS AR160744/c
DEFINITION Sequence 38 from patent US 6255110.
ACCESSION AR160744
VERSION AR160744.1 GI:16225330
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE
AUTHORS Cowsett,L.M. and Wyatt,J.
TITLE Antisense modulation of ARA70 expression
JOURNAL Patent: US 6255110-A 38 03-JUL-2001;
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    Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CTGGCGTATCTGAAG 15
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Db 16 CTGGCCATCTGAAG 2

RESULT 24
LOCUS AR310829
DEFINITION Sequence 1366 from patent US 6559294.
ACCESSION AR310829
VERSION AR310829.1 GI:31704255
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE
AUTHORS Griffais,R., Hoiseuth,S.K., Zagursky,R.J., Metcalf,B.J., Peek,J.A.,
TITLE Sankaran,B. and Fletcher,L.D.
JOURNAL Chlamydia pneumoniae polynucleotides and uses thereof
FEATURES
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    Best Local Similarity 86.7%; Pred. No. 5.4e+05;
    Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGT 18
    ||||| |||||
Db 1 GCGGATCTGAGGAGT 15

RESULT 25
LOCUS BD238283/c
DEFINITION Accelerated identification of polymorphism of single nucleotide in
ACCESSION BD238283
VERSION BD238283.1 GI:33048053
KEYWORDS JP 2002534098-A/118.
SOURCE synthetic construct

Qy 7 TATCTGAAGAGTCTG 21
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Db 17 TATCGAAGAGTCTG 3

RESULT 23
LOCUS AR160744/c
DEFINITION Sequence 38 from patent US 6255110.
ACCESSION AR160744
VERSION AR160744.1 GI:16225330
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE
AUTHORS Cowsett,L.M. and Wyatt,J.
TITLE Antisense modulation of ARA70 expression
JOURNAL Patent: US 6255110-A 38 03-JUL-2001;
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    Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CTGGCGTATCTGAAG 15
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Db 16 CTGGCCATCTGAAG 2

RESULT 24
LOCUS AR310829
DEFINITION Sequence 1366 from patent US 6559294.
ACCESSION AR310829
VERSION AR310829.1 GI:31704255
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE
AUTHORS Griffais,R., Hoiseuth,S.K., Zagursky,R.J., Metcalf,B.J., Peek,J.A.,
TITLE Sankaran,B. and Fletcher,L.D.
JOURNAL Chlamydia pneumoniae polynucleotides and uses thereof
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    Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGT 18
    ||||| |||||
Db 1 GCGGATCTGAGGAGT 15

RESULT 25
LOCUS BD238283/c
DEFINITION Accelerated identification of polymorphism of single nucleotide in
ACCESSION BD238283
VERSION BD238283.1 GI:33048053
KEYWORDS JP 2002534098-A/118.
SOURCE synthetic construct

ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS Barany,F., Liu,J., Kirk,B.W., Zirvi,M., Gerry,N.P. and Paty,P.B.
TITLE Accelerated identification of polymorphism of single nucleotide in
JOURNAL genome sequencing and alignment of clones
PATENT: JP 2002534098-A 118 15-OCT-2002;
CORNELL RESEARCH FOUNDATION INC, SLOAN KETTERING INSTITUTE FOR
CANCER RESEARCH
COMMENT
OS Artificial Sequence
PN JP 2002534098-A/118
PD 15-OCT-2002
PF 05-JAN-2000 JP 2000592447
PR 06-JAN-1999 US 60/114881
PI FRANCIS BARANY, JIANZHAO LIU, BRIAN W KIRK, MONIB ZIRVI, NORMAN P
PI GERRY,
PI PHILIP B PATY
PC C12N15/09,C12Q1/68,G01N33/53,G01N33/566,G01N37/00,G01N37/00//
PC G01N33/50,
PC C12N15/00
CC Description of Artificial Sequence: probe/primer FH Key
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ORIGIN
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    Best Local Similarity 86.7%; Pred. No. 5.4e+05;
    Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CTGGCGTATCTGAAG 15
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Db 17 CTGGTGTGTCTGAAG 3

RESULT 26
AX804694/c
LOCUS AX804694
DEFINITION Sequence 862 from Patent WO03060160.
ACCESSION AX804694
VERSION AX804694.1 GI:38521835
KEYWORDS
SOURCE Oreochromis niloticus (Nile tilapia)
ORGANISM Oreochromis niloticus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes;
Labroidae; Cichlidae; Oreochromis.
REFERENCE
AUTHORS Lie,Y., Slettan,A., Hoeyum,M. and Lingaas,F.
TITLE Verification of food origin based on nucleic acid pattern
JOURNAL recognition
PATENT: WO 03060160-A 862 24-JUL-2003;
Genomar ASA (NO)
FEATURES
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                /organism="Oreochromis niloticus"
                /mol_type="unassigned DNA"
                /db_xref="taxon:8128"
ORIGIN
    Query Match 56.2%; Score 11.8; DB 6; Length 21;
    Best Local Similarity 86.7%; Pred. No. 5.4e+05;
    Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GCGGTATCTGAAGAG 17
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Db 15 GCGGTATTTGGAGAG 1

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RESULT 27
LOCUS DOGC00505A/c 21 bp DNA linear STS 10-APR-1996
DEFINITION Canis familiaris STS microsatellite marker (repeat motif in
reference clone (GT)9T(TG)4(TA)4(TG)7) DNA, sequence tagged site.
ACCESSION L77539
VERSION L77539.1 GI:1261663
KEYWORDS STS; PCR identification; microsatellite; sequence tagged site.
SOURCE Canis familiaris (dog)
ORGANISM Canis familiaris
REFERENCE 1 (bases 1 to 21)
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
TITLE yuzbaeyan-Gurkan,V., Cao,Y., Gurkan,M., Yuxun,W., Venta,P.J.,
JOURNAL Brewer,G.J. and Blanton,S.H.
COMMENT Microsatellite markers for the canine genome
Unpublished (1996)
Original source text: Canis familiaris female adult peripheral
blood DNA.
FEATURES
source
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/organism="Canis familiaris"
/mol_type="genomic DNA"
/db_xref="taxon:9615"
/sex="female"
/cell_type="white blood cells"
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/notes="product size 230"
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1..21
/notes="product size 230"
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Query Match 56.2%; Score 11.8; DB 11; Length 21;
Best Local Similarity 86.7%; Pred. No. 5.4e+05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TATCTGAAGAGTCTG 21
|||||
Db 15 TATCTGAAGGCTCTG 1

RESULT 28
LOCUS CQ786885/c 18 bp DNA linear PAT 24-MAR-2004
DEFINITION Sequence 62 from Patent WO2004021010.
ACCESSION CQ786885
VERSION CQ786885.1 GI:45721877
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Nakamura,Y. and Furukawa,Y.
TITLE Method of diagnosing colon and gastric cancers
JOURNAL Patent: WO 2004021010-A 62 11-MAR-2004;
Oncotherapy Science, Inc. (JP); Japan as represented by the
president of the university of Tokyo (JP)
FEATURES
location/Qualifiers
1..18
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/notes="Artificially synthesized S-oligonucleotide"
ORIGIN
Query Match 55.2%; Score 11.6; DB 6; Length 18;
Best Local Similarity 77.8%; Pred. No. 7e+05;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Qy 4 GCGTATCTGAAGAGTCTG 21
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Db 18 GTGATGTGAAGTCTG 1

RESULT 29
LOCUS DOGP17601/c 20 bp DNA linear MAM 16-JAN-1996
DEFINITION Dog (Clone: CXK.176) primer for STS 176, 5' end.
ACCESSION L24208
VERSION L24208.1 GI:401855
KEYWORDS PCR identification; PCR primer; STS.
SEGMENT 1 of 2
SOURCE Canis familiaris (dog)
ORGANISM Canis familiaris
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
TITLE 1 (bases 1 to 20)
AUTHORS Ostrander,E.A., Mapa,F.A., Yee,M. and Rine,J.
COMMENT One hundred and one new simple sequence repeat-based markers for
the canine genome
Mamm. Genome 6 (3), 192-195 (1995)
JOURNAL 95268214
MEDLINE 7749226
PUBMED
COMMENT Original source text: Canis familiaris (library: E. Ostrander, in
pbluescript+) adult spleen DNA.
Submitted by: Fred Hutchinson Cancer Research Center
Transplantation Biology Dept 1124 Columbia; Mailstop M318
Seattle, WA 98104, USA e-mail: EAOstrander@bl.gov PCR
Buffer: PCR buffer (Perkin-Elmer/Cetus) PCR Profile:
Denaturation: 94 degrees C for 1.00 minute Annealing:
or 59 degrees C for 0.45 minutes Polymerization: 74 degrees C
for 1.00 minutes PCR Cycles: 33 Final Extension: 74
degrees C for 5.00 minutes.
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Location/Qualifiers
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/db_xref="taxon:9615"
/tissue_type="spleen"
/dev_stage="adult"
/tissue_lib="E. Ostrander, in pBluescript+"
1..20
primer_bind
ORIGIN
Query Match 55.2%; Score 11.6; DB 4; Length 20;
Best Local Similarity 77.8%; Pred. No. 6.9e+05;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGTCTG 21
|||||
Db 19 GTGTCTCTGGAGACCTG 2

RESULT 30
LOCUS BD138203 20 bp DNA linear PAT 18-SEP-2002
DEFINITION Antisense modulation of human MDM2 expression.
ACCESSION BD138203
VERSION BD138203.1 GI:23233148
KEYWORDS JP 2002508944-A/129.
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1 (bases 1 to 20)
AUTHORS Miraglia,L.J., Nero,P., Graham,M.J., Monia,B.P. and Cowsewrt,L.M.
TITLE Antisense modulation of human MDM2 expression
JOURNAL Patent: JP 2002508944-A 129 26-MAR-2002;
ISIS PHARMACEUTICALS INC
COMMENT OS Unidentified
PN JP 2002508944-A/129
PD 26-MAR-2002

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PF 26-MAR-1999 JP 2000538025
PR 26-MAR-1998 US 09/048810
PI LOREN J MIRAGLIA, PAMELA NERO, MARK J GRAHAM, BRETT P MONIA, LEX M

PI CONSENT
PC C12N15/09, A61K48/00, A61P9/10, A61P17/06, A61P35/00, C07H21/04//
PC C12Q1/68,
PC C12N15/00
CC Strandedness: Single;
CC Topology: Linear;
CC Antisense modulation of human MDM2 expression FH Key
CC Location/Qualifiers
FT source 1..20
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source
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/organism="unidentified"
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ORIGIN
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Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 2 TGGCGTATCTGAAGATC 19
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Db 1 TGGGTCCTCTAGATTC 18

RESULT 31
CQ794181 20 bp DNA linear PAT 19-APR-2004
LOCUS
DEFINITION
Sequence 101 from Patent EP1403384.
ACCESSION
CQ794181
VERSION
CQ794181.1 GI:46406823
KEYWORDS
synthetic construct
SOURCE
synthetic construct
other sequences; artificial sequences.

REFERENCE
1
AUTHORS
Meijer, C.J. and Snijders, P.J.
TITLE
Method for detecting and typing of cutaneous HPV and primers and
probes for use therein
JOURNAL
Patent: EP 1403384-A 101 31-MAR-2004;
Stichting Researchfonds Pathologie (NL)

FEATURES
source
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Location/Qualifiers
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/notes="type-specific detection probe RLBSkinHPV 37"

ORIGIN
Query Match 55.2%; Score 11.6; DB 6; Length 20;
Best Local Similarity 77.8%; Pred. No. 6.9e+05;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 CTGGCGTATCTGAAGAGT 18
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Db 3 CTGGTATATTGGAAGAGT 20

RESULT 32
CQ800150 20 bp DNA linear PAT 29-APR-2004
LOCUS
DEFINITION
Sequence 101 from Patent WO2004029302.
ACCESSION
CQ800150
VERSION
CQ800150.1 GI:46849070
KEYWORDS
synthetic construct
SOURCE
synthetic construct
other sequences; artificial sequences.

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REFERENCE
1
AUTHORS
Meijer, C.J. and Snijders, P.J.
TITLE
Method for detecting and typing of cutaneous hpv and primers and
probes for use therein
JOURNAL
Patent: WO 2004029302-A 101 08-APR-2004;
Stichting Researchfonds Pathologie (NL)

FEATURES
source
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Location/Qualifiers
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/notes="type-specific detection probe RLBSkinHPV 37"

ORIGIN
Query Match 55.2%; Score 11.6; DB 6; Length 20;
Best Local Similarity 77.8%; Pred. No. 6.9e+05;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 CTGGCGTATCTGAAGAGT 18
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Db 3 CTGGTATATTGGAAGAGT 20

RESULT 33
CQ831775 20 bp DNA linear PAT 29-JUL-2004
LOCUS
DEFINITION
Sequence 29 from Patent WO2004056994.
ACCESSION
CQ831775
VERSION
CQ831775.1 GI:50831650
KEYWORDS
synthetic construct
SOURCE
synthetic construct
other sequences; artificial sequences.

REFERENCE
1
AUTHORS
Gouliaev, A.H., Holtmann, A., Pedersen, H. and Franch, T.
TITLE
Quasirandom structure and function guided synthesis methods
JOURNAL
Patent: WO 2004056994-A 29 08-JUL-2004;
Nuevolution A/S (DK)

FEATURES
source
1..20
Location/Qualifiers
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/notes="The oligonucleotides were prepared by conventional
phosphoramidite synthesis"

ORIGIN
Query Match 55.2%; Score 11.6; DB 6; Length 20;
Best Local Similarity 77.8%; Pred. No. 6.9e+05;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGTCTG 21
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Db 1 GCCTATGTGACGAATCTG 18

RESULT 34
AR230770 20 bp DNA linear PAT 20-DEC-2002
LOCUS
DEFINITION
Sequence 30 from patent US 6451602.
ACCESSION
AR230770
VERSION
AR230770.1 GI:27271557
KEYWORDS
Unknown.
SOURCE
Unknown.
ORGANISM
Unclassified.
REFERENCE
1 (bases 1 to 20)
AUTHORS
Popoff, I. and Cowser, L.M.
TITLE
Antisense modulation of PARP expression
JOURNAL
Patent: US 6451602-A 30 17-SEP-2002;
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Location/Qualifiers
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Query Match      55.2%; Score 11.6; DB 6; Length 20;
Best Local Similarity 77.8%; Pred. No. 6.9e+05;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGTCTG 21
   |||||
Db 1 GCTTATCGAAGACTCG 18
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RESULT 35
LOCUS AR312230 20 bp DNA linear PAT 12-JUN-2003
DEFINITION Sequence 2767 from patent US 6559294.
ACCESSION AR312230
VERSION AR312230.1 GI:31705656
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Griffais,R., Hoiseth,S.K., Zagursky,R.J., Metcalf,B.J., Peek,J.A.,
TITLE Sankaran,B. and Fletcher,L.D.
JOURNAL Chlamydia pneumoniae polynucleotides and uses thereof
FEATURES Patent: US 6559294-A 2767 06-MAY-2003;
Location/Qualifiers
source 1..20
/organism="unknown"
/mol_type="genomic DNA"

ORIGIN

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Best Local Similarity 77.8%; Pred. No. 6.9e+05;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGTCTG 21
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Db 20 GCTTCTCTGAACAGACTG 3
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RESULT 36
LOCUS AR535425 20 bp DNA linear PAT 08-OCT-2004
DEFINITION Sequence 12 from patent US 6737245.
ACCESSION AR535425
VERSION AR535425.1 GI:53926637
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Francis,K.P., Contag,P.R. and Joh,D.J.
TITLE Luciferase expression cassettes and methods of use
JOURNAL Patent: US 6737245-A 12 18-MAY-2004;
FEATURES Location/Qualifiers
source 1..20
/organism="unknown"
/mol_type="genomic DNA"

ORIGIN

Query Match      55.2%; Score 11.6; DB 6; Length 20;
Best Local Similarity 77.8%; Pred. No. 6.9e+05;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGTCTG 21
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Db 19 GCATCTCTGAGAGGTG 2
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RESULT 37
LOCUS AX093430 20 bp DNA linear PAT 15-FEB-2002
DEFINITION Sequence 15 from Patent WO0208431.
ACCESSION AX361094
VERSION AX361094.1 GI:18693753
KEYWORDS
SOURCE
ORGANISM synthetic construct
REFERENCE 1
other sequences; artificial sequences.
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LOCUS AX093430 20 bp DNA linear PAT 30-MAR-2001
DEFINITION Sequence 12 from Patent WO0118195.
ACCESSION AX093430
VERSION AX093430.1 GI:13509880
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Francis,K.P., Contag,P.R. and Joh,D.J.
TITLE Luciferase expression cassettes and methods of use
JOURNAL Patent: WO 0118195-A 12 15-MAR-2001;
Xenogen Corporation (US)
FEATURES Location/Qualifiers
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ORIGIN

Query Match      55.2%; Score 11.6; DB 6; Length 20;
Best Local Similarity 77.8%; Pred. No. 6.9e+05;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGTCTG 21
   |||||
Db 19 GCATCTCTGAGAGGTG 2
   |||||

RESULT 38
LOCUS AX167860 20 bp DNA linear PAT 03-JUL-2001
DEFINITION Sequence 44 from Patent WO0142307.
ACCESSION AX167860
VERSION AX167860.1 GI:14597179
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Saito,K., Ohe,N. and Satoh,H.
TITLE Mutant er G(a) and test systems for transactivation
JOURNAL Patent: WO 0142307-A 44 14-JUN-2001;
Sumitomo Chemical Company, Limited (JP)
FEATURES Location/Qualifiers
source 1..20
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Designed oligonucleotide primer for PCR"

ORIGIN

Query Match      55.2%; Score 11.6; DB 6; Length 20;
Best Local Similarity 77.8%; Pred. No. 6.9e+05;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGTCTG 21
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Db 2 GCTTCACTGAAGGCTG 19
   |||||

RESULT 39
LOCUS AX361094 20 bp DNA linear PAT 15-FEB-2002
DEFINITION Sequence 15 from Patent WO0208431.
ACCESSION AX361094
VERSION AX361094.1 GI:18693753
KEYWORDS
SOURCE
ORGANISM synthetic construct
REFERENCE 1
other sequences; artificial sequences.
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AUTHORS Francis,K.P. and Purchio,A.F.  
TITLE Compositions and methods for use thereof in modifying the genomes of microorganisms  
JOURNAL Patent: WO 0208431-A 15 31-JAN-2002;  
Xenogen Corporation (US)  
FEATURES Location/Qualifiers  
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/mol\_type="unassigned DNA"  
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/note="Primer LuxA-Rev"

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Query Match 55.2%; Score 11.6; DB 6; Length 20;  
Best Local Similarity 77.8%; Pred. No. 6.9e+05;  
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Oy 4 GCGTATCTGAAGAGTCTG 21  
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Db 19 GCATCTCTGAGGAGTG 2

RESULT 40  
BD015694/c

LOCUS BD015694 20 bp DNA linear PAT 27-AUG-2002  
DEFINITION Novel protein and DNA thereof.  
ACCESSION BD015694  
VERSION BD015694.1 GI:22556831  
KEYWORDS JP 2001204480-A/9.  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.  
REFERENCE 1 (bases 1 to 20)  
AUTHORS Nakanishi,A. and Morita,S.  
TITLE Novel protein and DNA thereof  
JOURNAL Patent: JP 2001204480-A 9 31-JUL-2001;  
TAKEDA CHEMICAL INDUSTRIES LTD  
COMMENT OS Artificial Sequence  
PN JP 2001204480-A/9  
PD 31-JUL-2001  
PF 14-NOV-2000 JP 2000347107  
PI ATSUSHI NAKANISHI,SHIGERU MORITA  
PC C12N15/09,A61K38/00,A61K45/00,A61K48/00,A61P11/00,A61P11/06,  
A61P31/04,  
PC A61P31/06,A61P31/12,A61P31/18,A61P37/02,A61P37/08,A61P43/00,  
C07K16/40,  
PC C12N1/15,C12N1/19,C12N1/21,C12N5/10,C12N9/34,G01N33/15,G01N33/50//  
PC C12P21/08,C12N15/00,A61K37/02,C12N5/00  
CC Primer  
FH Key  
FT source 1..20 Location/Qualifiers  
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FT Location/Qualifiers  
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/mol\_type="genomic DNA"  
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FEATURES

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Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

ORIGIN

Oy 1 CTGGCGTATCTGAAGAGT 18  
||| |||| |||| ||  
Db 19 CTGACGGTCTGAGGAGT 2

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 08:59:07 ; Search time 238 Seconds  
(without alignments)  
522.330 Million cell updates/sec

Title: US-09-743-825-8

Perfect score: 21

Sequence: 1 ctggcgatctctgaagagctctg 21

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 2380332

Minimum DB seq length: 0  
Maximum DB seq length: 21

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 100 summaries

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2: geneseqn1990s:\*  
3: geneseqn2000s:\*  
4: geneseqn2001as:\*  
5: geneseqn2001bs:\*  
6: geneseqn2002as:\*  
7: geneseqn2002bs:\*  
8: geneseqn2003as:\*  
9: geneseqn2003bs:\*  
10: geneseqn2003cs:\*  
11: geneseqn2003ds:\*  
12: geneseqn2004as:\*  
13: geneseqn2004bs:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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C 3	13.6	64.8	20	2	AA205689
C 4	13	61.9	20	4	AAC63891
C 5	13	61.9	20	9	AA098333
C 6	12.8	61.0	17	2	AAV97668
C 7	12.8	61.0	20	12	ADJ85562
C 8	12.8	61.0	20	12	ADK96254
C 9	12.8	61.0	21	10	ADP50105
C 10	12.8	61.0	21	10	ADF50117
C 11	12.8	61.0	21	10	ADF50125
C 12	12.8	61.0	21	10	ADF50109
C 13	12.8	61.0	21	10	ADG29696
C 14	12.8	61.0	21	10	ADG29693
C 15	12.8	61.0	21	10	ADG29700
C 16	12.8	59.0	19	12	ADQ61043
C 17	12.4	59.0	20	12	ADI79541
C 18	12.4	59.0	20	12	ADI79738
C 19	12.2	58.1	17	2	AAV97669
C 20	12.2	58.1	17	8	ADB02331

21	12.2	58.1	20	2	AAV29903	Aav29903 3' PCR pr
22	12.2	58.1	20	2	AAV31711	Aav31711 Kaposi's
C 23	12.2	58.1	20	10	AA61207	Aad61207 Human Shi
C 24	12.2	58.1	20	12	ADH50671	Adh50671 Human IRA
C 25	12	57.1	17	10	ADI50969	Adi50969 Human tum
C 26	12	57.1	20	4	AAC92623	Aac92623 Human nuc
C 27	12	57.1	20	12	ADP68593	Adp68593 Human PPA
C 28	12	57.1	20	12	ADP68748	Adp68748 Human PPA
C 29	12	57.1	21	3	AAA46172	Aaa46172 PCR prime
C 30	12	57.1	21	4	AAF97151	Aaf97151 Human gen
C 31	11.8	56.2	17	2	AAQ51964	Aaq51964 BCL-2 mRNA
C 32	11.8	56.2	17	2	AAQ51964	Aaq51964 BCL-2 mRNA
C 33	11.8	56.2	17	4	ABK03278	Abk03278 Human EGF
C 34	11.8	56.2	17	12	ADP92273	Adp92273 Human cyt
C 35	11.8	56.2	19	12	ADQ61034	Adq61034 Anti-FLT1
C 36	11.8	56.2	19	13	ADR79337	Adr79337 Human apo
C 37	11.8	56.2	19	13	ADR79337	Adr79337 Human apo
C 38	11.8	56.2	19	13	ADR75873	Adr75873 Human apo
C 39	11.8	56.2	19	13	ADR77702	Adr77702 Human apo
C 40	11.8	56.2	19	13	ADR78491	Adr78491 Human apo
C 41	11.8	56.2	19	13	ADR77068	Adr77068 Human apo
C 42	11.8	56.2	20	2	AA92065	Aax92065 PCR prime
C 43	11.8	56.2	20	4	AAH25254	Aah25254 Antisense
C 44	11.8	56.2	20	12	ADI29104	Adi29104 Antisense
C 45	11.8	56.2	20	12	ADI29174	Adi29174 Human MAR
C 46	11.8	56.2	20	13	ADQ88807	Adq88807 Human HIF
C 47	11.8	56.2	21	2	ADG77200	Adg77200 Canine di
C 48	11.8	56.2	21	3	AAA57654	Aaa57654 PCR prime
C 49	11.8	56.2	21	10	ADD20227	Add20227 Oreochrom
C 50	11.8	56.2	21	12	ADJ97442	Adj97442 Human Flt
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C 52	11.6	55.2	20	2	AAZ37599	Aaz37599 Human mdm
C 53	11.6	55.2	20	2	AA93441	Aax93441 PCR prime
C 54	11.6	55.2	20	4	AA545609	Aas45609 Human PAR
C 55	11.6	55.2	20	4	AAH58991	Aah58991 Human Oes
C 56	11.6	55.2	20	4	AAF80753	Aaf80753 Human mdm
C 57	11.6	55.2	20	4	AA500300	Aas00300 Primer LU
C 58	11.6	55.2	20	4	AAH42021	Aah42021 Disease t
C 59	11.6	55.2	20	5	AAH46137	Aah46137 Mouse Gob
C 60	11.6	55.2	20	5	AA529368	Aas29368 Human mdm
C 61	11.6	55.2	20	6	ABK48015	Abk48015 Transposo
C 62	11.6	55.2	20	6	ABQ81566	Abq81566 Luciferas
C 63	11.6	55.2	20	8	ABZ76183	Abz76183 A. thalia
C 64	11.6	55.2	20	10	ADD21564	Add21564 Human mdm
C 65	11.6	55.2	20	10	ABX14046	Abx14046 PCR prime
C 66	11.6	55.2	20	12	ADQ51090	Ado51090 Human BCL
C 67	11.6	55.2	20	12	ADP85595	Adp85595 Human EMA
C 68	11.6	55.2	21	2	AAAT4321	Aac14321 Primer #1
C 69	11.4	54.3	19	3	AAZ72130	Aaz72130 Human dia
C 70	11.4	54.3	20	9	ADA89290	Ada89290 Human IBD
C 71	11.4	54.3	20	10	ADA66509	Ada66509 Transform
C 72	11.4	54.3	20	11	ADM5775	Adm5775 Human Y c
C 73	11.4	54.3	20	12	ADH58733	Adh58733 Human CDC
C 74	11.4	54.3	20	12	ADI79866	Adi79866 Mouse HMG
C 75	11.4	54.3	20	12	ADI79673	Adi79673 Mouse HMG
C 76	11.4	54.3	20	12	ADL17929	Adl17929 Antisense
C 77	11.4	54.3	20	12	ADL61397	Adl61397 Human pro
C 78	11.4	54.3	20	12	ADL61397	Adl61397 Human mpg
C 79	11.4	54.3	20	12	ADMI4657	Admi4657 Human mpg
C 80	11.4	54.3	20	12	ADMI4768	Admi4768 Human mpg
C 81	11.4	54.3	20	12	ADMI4234	Admi4234 Human mpg
C 82	11.4	54.3	20	12	ADMI4290	Admi4290 Human mpg
C 83	11.4	54.3	20	12	ADMI4923	Admi4923 Human mpg
C 84	11.4	54.3	20	12	ADMI4365	Admi4365 Human mpg
C 85	11.4	54.3	20	12	ADMI4507	Admi4507 Human mpg
C 86	11.4	54.3	21	4	AAF97721	Aaf97721 Human gen
C 87	11.4	54.3	21	12	ADO27101	Ado27101 Human HIF
C 88	11.4	54.3	21	13	ADR74087	Adr74087 Allele sp
C 89	11.2	53.3	17	2	AAV97670	Aav97670 Human EGF
C 90	11.2	53.3	17	6	ABK55785	Abk55785 Human ClC
C 91	11.2	53.3	17	6	ABK55786	Abk55786 Human ClC
C 92	11.2	53.3	17	6	ACN02458	Acn02458 WNV Inozoy
C 93	11.2	53.3	17	6	ACN00743	Acn00743 WNV Hamme

c 94 11.2 53.3 17 8 ADB02332  
 c 95 11.2 53.3 17 8 ADB02330  
 c 96 11.2 53.3 17 11 ADL47815  
 97 11.2 53.3 18 3 AAZ71326  
 98 11.2 53.3 19 2 AAV27078  
 c 99 11.2 53.3 19 3 AAA82881  
 c 100 11.2 53.3 19 3 AAA82880

ADB02332 Human MDZ  
 Adb02330 Human MDZ  
 Adl47815 Human IKK  
 Aaz71326 Human b1a  
 Aav27078 Primer YA  
 Aaa82881 cdk4 ribo  
 Aaa82880 cdk4 ribo

## ALIGNMENTS

## RESULT 1

AAZ50445

ID AAZ50445 standard; DNA; 21 BP.

XX

AC AAZ50445;

XX

DT 18-MAY-2000 (first entry)

XX

XX EST R00504-specific primer 2.

DE

XX PB39; human; prostate cancer; PC; chromosome 11p11.1-11.2; cancer;  
 KW prostate epithelium; splicing mechanism; early diagnosis; progression;  
 KW precancerous cell; metastatic potential; non-neoplastic prostate disease;  
 KW expressed sequence tag; EST; PCR primer; ss.

XX

OS Homo sapiens.

XX

XX WO200005376-A1.

PN

XX 03-FEB-2000.

PD

XX 23-JUL-1999; 99WO-US016831.

PF

XX 24-JUL-1998; 98US-0094137P.

PR

XX (USSH ) US DEPT HEALTH &amp; HUMAN SERVICES.

XX

PA Chuahui RF, Cole KA, Liotta LA;

PI

XX WPI; 2000-182700/16.

DR

XX Novel gene which is dysregulated in prostate cancer useful for diagnosing  
 XX cancer.

PT

XX Claim 5; Page 16; Sipp; English.

PS

XX The present sequence is the EST AAR00504-specific PCR primer, used for  
 CC amplification of sequences contained within the EST AAR00504. It is  
 CC useful to probe the gene overexpressed in prostate cancer epithelium and  
 CC to analyse the differential expression of the EST. The PB39 gene that is  
 CC dysregulated in prostate cancer is isolated from human pancreas cDNA  
 CC library and has homology to the EST AAR00504. PB39 gene is located on  
 CC chromosome 11p11.1-11.2. Abnormally high concentrations of PB39 are found  
 CC in prostate tissue derived from prostate cancer (PC) epithelium. PB39  
 CC sequence is useful for detection of precancerous or cancer cells in the  
 CC prostate. PB39 is useful for early diagnosis of the progression of  
 CC prostate cancer, especially in aggressive prostate carcinoma. It can also  
 CC distinguish PC from other non-neoplastic prostate disease. The diagnostic  
 CC method is selective and specific for various types of PC and also  
 CC facilitates identifying prostate cancer of differing aggressiveness and  
 CC metastatic potential

XX

SQ Sequence 21 BP; 4 A; 4 C; 7 G; 6 T; 0 U; 0 Other;

XX

Query Match 100.0%; Score 21; DB 3; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 0.68;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGGCGTATCTGAAGAGTCTG 21

Db 1 CTGGCGTATCTGAAGAGTCTG 21

## RESULT 2

ADJ85951/c

ID ADJ85951 standard; DNA; 20 BP.

XX

XX AC ADJ85951;

XX

DT 06-MAY-2004 (first entry)

XX

XX Nucleic acid analysis-related Tag probe SeqID1019.

XX

XX restriction endonuclease site; T3 promoter site; Tag gene; Poly A site;  
 KW T7 Promoter; nucleic acid analysis; synthetic Tag gene; assay control;  
 KW assay development; product development; product validation;  
 KW quality control; probe; ss.

XX

OS Synthetic.

XX

XX OS Unidentified.

XX

XX WO2004007684-A2.

PN

XX 22-JAN-2004.

XX

XX 14-JUL-2003; 2003WO-US021990.

XX

XX 12-JUL-2002; 2002US-0395530P.

XX

XX (AFFY-) AFFYMETRIX INC.

XX

XX Christians FC;

XX

XX WPI; 2004-122923/12.

DR

XX New DNA molecules made by annealing and extending overlapping 60mer  
 PT oligonucleotides, useful in producing synthetic Tag genes useful as assay  
 PT controls, in assay development, product development and for quality  
 PT control.

XX

PS Disclosure; SEQ ID NO 1019; 91pp; English.

XX

XX This invention relates to a novel DNA molecule which comprises a DNA  
 CC molecule made up of the following elements in a 5' to 3' direction: a  
 CC first restriction endonuclease site; a T3 promoter site; at least one Tag  
 CC gene comprising at least 5 20mer Tag sequences; a Poly A site having at  
 CC least 21 consecutive A residues; a second restriction endonuclease site  
 CC which may be the same or different than the first restriction  
 CC endonuclease site; or a T7 Promoter on the opposite strand as the T3  
 CC promoter. The invention may be useful in nucleic acid analysis, in  
 CC particular to synthetic Tag genes useful as assay controls, in assay  
 CC development, product development and validation and for quality control.  
 CC The present sequence is that of a Tag oligonucleotide probe which may be  
 CC used during the creation of the novel DNA molecule of the invention.

XX

SQ Sequence 20 BP; 5 A; 6 C; 5 G; 4 T; 0 U; 0 Other;

XX

Query Match 65.7%; Score 13.8; DB 12; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 3.5e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY

5 CGTATCTGAAGAGTCTG 21

Db

20 CATATCTGGAGAGTCTG 4

## RESULT 3

AAZ05689/c

ID AAZ05689 standard; DNA; 20 BP.

XX

XX AC AAZ05689;

XX

XX 07-OCT-1999 (first entry)

XX

PCR primer used to amplify an ORF of Chlamydia trachomatis.

DE Vaccine; eye disease; conventional trachoma; nonendemic trachoma;  
 KW paratrachoma; inclusion conjunctivitis; genital disease; perihhepatitis;  
 KW nongonococcal urethritis; epididymitis; cervicitis; salpingitis; PCR primer;  
 KW Bartholinitis; pneumopathy; venereal lymphogranulomatosis; ss.

OS Synthetic.  
 OS Chlamydia trachomatis.

XX WO9928475-A2.

PN 10-JUN-1999.

XX 27-NOV-1998; 98WO-IB001939.

XX 28-NOV-1997; 97FR-00015041.

PR 17-DEC-1997; 97FR-00016034.

PR 04-NOV-1998; 98US-0107077P.

XX (GBST ) GENSET.

XX Griffais R;

DR WPI; 1999-371125/31.

XX Genome sequence of Chlamydia trachomatis.

XX Disclosure; Page 1791; 1755pp; English.

XX PCR primers AAZ01426-206209 were used to amplify open reading frames  
 CC (ORFs) of the genome of Chlamydia trachomatis (see AAZ01425). These ORFs  
 CC encode polypeptides (see AAY36754-Y37949) which can be used as vaccines  
 CC against Chlamydia trachomatis. Antisense and ribozyme sequences can also  
 CC be used to control growth of the microorganism. Chlamydia trachomatis is  
 CC responsible for a large number of diseases, e.g. eye diseases such as  
 CC conventional trachoma, nonendemic trachoma, paratrachoma, and inclusion  
 CC conjunctivitis; genital diseases such as nongonococcal urethritis;  
 CC epididymitis, cervicitis, salpingitis, perihhepatitis, Bartholinitis;  
 CC pneumopathy in breast feeding infants; and venereal lymphogranulomatosis.  
 CC The polypeptides of the invention may be of use in treating these  
 CC diseases

XX Sequence 20 BP; 6 A; 7 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 64.8%; Score 13.6; DB 2; Length 20;  
 Best Local Similarity 80.0%; Pred. No. 4.4e+03;  
 Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 2 TGGCGTATCTGAAGAGTCTG 21

Db 20 TGTCGTTTCAGAAGAGGCTG 1

RESULT 4

AAC63691

ID AAC63691 standard; DNA; 20 BP.

XX AAC63691;

XX 13-FEB-2001 (first entry)

XX Rat P2X<sub>7</sub>/P2Z PCR primer #3.

XX Rat; P2X<sub>7</sub>; neuroprotective; norepinephrine; antiinflammatory; antirheumatic;  
 KW antiarthritic; antibacterial; antiviral; antiallergic; cytostatic;  
 KW cardiac; cerebroprotective; immunosuppressive; P2Z; purinergic receptor;  
 KW nervous system disorder; chronic inflammation; Alzheimer's disease;  
 KW rheumatoid arthritis; amyloidosis; bacterial; viral; microbial infection;  
 KW haematopoietic system disorder; immune response; autoimmune disorder;  
 KW allergy; lymphoproliferative disorder; cardiac; cerebral ischaemia;  
 KW tuberculosis; PCR primer; ss.

OS Rattus sp.

XX US6133434-A.

XX 17-OCT-2000.

XX 28-APR-1997; 97US-00842079.

XX 28-APR-1997; 97US-00842079.

XX (GLAX ) GLAXO GROUP LTD.

XX Buell GN, Kawashima E, Surprenant A;

XX WPI; 2001-006153/01.

XX Mammalian purinergic receptor (P2X<sub>7</sub>) useful for screening for modulators  
 PT which are useful for treating arthritic, respiratory disorders and  
 PT neurodegenerative disorders, and to generate receptors specific  
 PT antibodies.

XX Example 1; Col 7-8; 40pp; English.

XX The present invention relates to rat and human purinergic receptor  
 CC P2X<sub>7</sub>/P2Z (AAC63693-C63694). The P2X<sub>7</sub> coding sequences can be used to  
 CC treat disorders of the nervous system, particularly diseases with a  
 CC component of chronic inflammation, such as Alzheimer's disease, diseases  
 CC involving acute or chronic inflammation such as rheumatoid arthritis,  
 CC amyloidosis, bacterial, viral and other microbial infections, disorders  
 CC of the haematopoietic system and immune response such as autoimmune  
 CC disorders, allergies and lymphoproliferative disorders, diseases  
 CC involving apoptotic cell death, such as cardiac and cerebral ischaemia  
 CC and microbial infections, particularly tuberculosis. The present sequence  
 CC is a PCR primer used to isolate the rat P2X<sub>7</sub> coding sequence

XX Sequence 20 BP; 4 A; 3 C; 7 G; 6 T; 0 U; 0 Other;

Query Match 61.9%; Score 13; DB 4; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 9e+03;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GGCCTATCTGAAG 15

Db 1 GGCCTATCTGAAG 13

RESULT 5

ADA09833

ID ADA09833 standard; DNA; 20 BP.

XX ADA09833;

XX 06-NOV-2003 (first entry)

XX Antisense nested PCR primer #1 for amplification of rat P2X<sub>7</sub> (P2Z).

XX PCR; ss; primer: permeabilising activity; P2X<sub>7</sub> receptor; P2Z receptor;  
 KW receptor; ATP; antigen presenting cell; T lymphocyte;  
 KW mitogenic stimulation; multinucleated giant cell; adenosine triphosphate;  
 KW 3'-O-(4-benzoyl)benzoyl ATP; BzATP; fluorescent dye; propidium iodide;  
 KW norepinephrine; neuroprotective; immunosuppressive; cerebroprotective;  
 KW vasotropic; arthritic disorder; respiratory disorder;  
 KW neurodegenerative disease; Alzheimer's disease; inflammation;  
 KW rheumatoid arthritis; amyloidosis; infection; tuberculosis;  
 KW haematopoietic system; immune response; allergy;  
 KW lymphoproliferative disorder; apoptosis; ischaemia; rat;  
 KW autoimmune disorder.

XX Rattus sp.

XX US6509163-B1.

XX 21-JAN-2003.

XX 15-AUG-2000; 2000US-00638857.  
XX 28-APR-1997; 97US-00842079.  
XX (GLAX ) GLAXO GROUP LTD.  
XX Buell GN, Surprenant A, Kawashima E;  
XX WPI; 2003-502654/47.  
XX Screening of compound for its ability to modulate permeabilizing activity  
XX of mammalian receptor useful for treating e.g. arthritis, and alzheimer's  
XX disease.  
XX Example 1; SEQ ID NO 3; 43pp; English.  
XX The invention discloses a method for screening a compound for its ability  
XX to modulate the permeabilising activity of a mammalian P2X7 (P22)  
XX receptor. The P2Z receptor is a cell surface receptor for ATP and has  
XX been implicated in the lysis of antigen presenting cells by cytotoxic T  
XX lymphocytes, in the mitogenic stimulation of human T lymphocytes, as well  
XX as in the formation of multinucleated giant cells. The preferred agonist  
XX is adenosine triphosphate (ATP) or 3'-O-(4-benzoyl)benzoyl ATP (BzATP)  
XX and the preferred method comprises monitoring the uptake into the cell of  
XX a detectable molecule, preferably a fluorescent dye (e.g. propidium  
XX iodide). The inventive method is useful for screening a compound for its  
XX ability to modulate the permeabilising activity of a mammalian P2X7  
XX receptor useful for treatment of arthritic and respiratory disorders and  
XX neurodegenerative diseases. It is particularly useful in the treatment of  
XX Alzheimer's disease, diseases involving acute or chronic inflammation  
XX including rheumatoid arthritis, amyloidosis, bacterial, viral and other  
XX microbial infections, e.g. tuberculosis, disorders of the haematopoietic  
XX system and immune response, including autoimmune disorders, allergies and  
XX lymphoproliferative disorders, diseases involving apoptotic cell death,  
XX such as cardiac and cerebral ischaemia. The sequence presented is a  
XX nested PCR primer used for the amplification of rat P2X7 cDNA.  
XX  
XX Sequence 20 BP; 4 A; 3 C; 7 G; 6 T; 0 U; 0 Other;  
Query Match 61.9%; Score 13; DB 9; Length 20;  
Best Local Similarity 100.0%; Pred. No. 9e+03;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 3 GGCCTATCTGAAG 15  
Db 1 GGCCTATCTGAAG 13  
RESULT 6  
AAV97668/c  
ID AAV97668 standard; RNA; 17 BP.  
XX AAV97668;  
XX 17-MAR-1999 (first entry)  
XX Human EGF-R target sequence nucleotide position 3858.  
XX Human epidermal growth factor receptor; EGFR; EGF-R; target sequence;  
XX hammerhead ribozyme; hairpin ribozyme; inhibition; cell proliferation;  
XX cancer; genetic drift; detection; mutation; ss.  
XX Homo sapiens.  
XX OS  
XX WO9833893-A2.  
XX 06-AUG-1998.  
XX 14-JAN-1998; 98WO-US0000730.  
XX 31-JAN-1997; 97US-0036476P.  
XX 04-DEC-1997; 97US-00985162.

XX (RIBO-) RIBOZYME PHARM INC.  
XX (UYAS-) UNIV ASTON.  
XX Akhtar S, Fell P, Mcswiggen JA;  
XX WPI; 1998-437449/37.  
XX Enzymatic nucleic acids - which cleave RNA derived from an epidermal  
XX growth factor receptor, useful for inhibiting cell proliferation and for  
XX treating cancers.  
XX Claim 5; Page 77; 109pp; English.  
XX The present invention describes enzymatic nucleic acid molecules (NAMES)  
XX which specifically cleave RNA derived from an epidermal growth factor  
XX receptor (EGF-R) gene. AAV97221 to AAV98043 and AAV98979 to AAV99090  
XX represent specifically claimed target sequence from human EGF-R. AAV98044  
XX to AAV98866 and AAV98867 to V9878 represent hammerhead ribozymes and  
XX hairpin ribozymes respectively for human EGF-R. The NAMS are useful for  
XX cleaving EGF-R RNA in the treatment of a condition associated with EGFR  
XX expression levels e.g. to inhibit cell proliferation in the prevention or  
XX treatment of cancers. The NAMS can also be used as diagnostic tools to  
XX examine genetic drift and mutations within diseased cells or to detect  
XX the presence of EGF-R RNA in a cell  
XX  
XX Sequence 17 BP; 4 A; 6 C; 2 G; 0 T; 5 U; 0 Other;  
Query Match 61.0%; Score 12.8; DB 2; Length 17;  
Best Local Similarity 87.5%; Pred. No. 1.1e+04;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 6 GTATCGAAGAGTCTG 21  
Db 16 GTATCGAAGAGTCTG 1  
RESULT 7  
ADJ85562/c  
ID ADJ85562 standard; DNA; 20 BP.  
XX ADJ85562;  
XX 06-MAY-2004 (first entry)  
XX Nucleic acid analysis-related Tag probe SeqID630.  
XX restriction endonuclease site; T3 promoter site; Tag gene; Poly A site;  
XX T7 Promoter; nucleic acid analysis; synthetic Tag gene; assay control;  
XX assay development; product development; product validation;  
XX quality control; probe; ss.  
XX Synthetic.  
XX OS  
XX Unidentified.  
XX WO2004007684-A2.  
XX 22-JAN-2004.  
XX 14-JUL-2003; 2003WO-US021990.  
XX 12-JUL-2002; 2002US-0395530P.  
XX (AFFY-) AFFYMETRIX INC.  
XX Christians FC;  
XX WPI; 2004-122923/12.  
XX New DNA molecules made by annealing and extending overlapping 60mer  
XX oligonucleotides, useful in producing synthetic tag genes useful as assay  
XX controls, in assay development, product development and for quality  
XX control.

XX Disclosure; SEQ ID NO 630; 91pp; English.

XX This invention relates to a novel DNA molecule which comprises a DNA

CC molecule made up of the following elements in a 5' to 3' direction: a

CC first restriction endonuclease site; a T3 promoter site; at least one Tag

CC gene comprising at least 5 20mer Tag sequences; a Poly A site having at

CC least 21 consecutive A residues; a second restriction endonuclease site

CC which may be the same or different than the first restriction

CC endonuclease site; or a T7 Promoter on the opposite strand as the T3

CC promoter. The invention may be useful in nucleic acid analysis, in

CC particular to synthetic Tag genes useful as assay controls, in assay

CC development, product development and validation and for quality control.

CC The present sequence is that of a Tag oligonucleotide probe which may be

CC used during the creation of the novel DNA molecule of the invention.

XX

SQ Sequence 20 BP; 5 A; 4 C; 6 G; 5 T; 0 U; 0 Other;

Query Match 61.0%; Score 12.8; DB 12; Length 20;

Best Local Similarity 87.5%; Pred. No. 1.1e+04;

Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 CGGTATCTGAAGATC 19

Db 17 GCGTATCTGCATAGTC 2

RESULT 8

ID ADK96254 standard; DNA; 20 BP.

AC ADK96254;

XX

DT 06-MAY-2004 (first entry)

DE Primer of the invention #1974.

XX human; single nucleotide polymorphism; SNP; ss; primer.

XX Synthetic.

XX JP2003259875-A.

XX 16-SEP-2003.

XX

PF 08-MAR-2002; 2002JP-00064373.

XX

PR 08-MAR-2002; 2002JP-00064373.

XX (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.

XX WPI; 2004-093977/10.

XX

PT Novel polynucleotide useful for PCR amplification along with two DNA

PT fragment from another set of sequences, or for detecting single

PT nucleotide polymorphism in human gene.

XX

PS Claim 2; SEQ ID NO 5283; 2627pp; Japanese.

XX

CC The present invention relates to a polynucleotide isolated from a human

CC gene and is useful for detecting a single nucleotide polymorphism in a

CC human gene or for diagnosing of disease. The invention enables the

CC detection of a single nucleotide polymorphism in a human gene. The

CC present sequence represents a primer of the invention.

XX

SQ Sequence 20 BP; 5 A; 3 C; 8 G; 4 T; 0 U; 0 Other;

Query Match 61.0%; Score 12.8; DB 12; Length 20;

Best Local Similarity 87.5%; Pred. No. 1.1e+04;

Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CTGGCGTATCTGAAGA 16

Db 17 GCGTATCTGCATAGTC 2

Db 3 CTGGCATAGCTGAAGA 18

RESULT 9

ADFS0105

ID ADF50105 standard; RNA; 21 BP.

XX

AC ADF50105;

XX

DT 12-FEB-2004 (first entry)

XX

DE Human BCL2 siRNA target sequence SEQ ID NO:833.

XX

DE ss; siRNA; human; BCL2; short interfering nucleic acid; RNA interference;

XX cytosolic; immunosuppressive; virucide; anti-HIV; cancer;

XX autoimmune disease; viral infection; HIV.

XX Homo sapiens.

XX WO2003070969-A2.

XX

PD 28-AUG-2003.

XX

PF 18-FEB-2003; 2003WO-US004908.

XX

PR 20-FEB-2002; 2002US-0358580P.

XX

PR 11-MAR-2002; 2002US-0363124P.

XX

PR 06-JUN-2002; 2002US-0386782P.

XX

PR 18-JUL-2002; 2002US-0396905P.

XX

PR 29-AUG-2002; 2002US-0406784P.

XX

PR 05-SEP-2002; 2002US-0408378P.

XX

PR 09-SEP-2002; 2002US-0409293P.

XX

PR 15-JAN-2003; 2003US-0440129P.

XX

PA (RIBO-) RIBOZYME PHARM INC.

XX

PI Meswigen J, Beigelman L;

XX

DR WPI; 2003-712622/67.

XX

PT New short interfering nucleic acid, useful e.g. for treatment and

PT diagnosis of cancer or autoimmune disease, downregulates expression of

PT the BCL2 gene.

XX

PS Example 3; SEQ ID NO 833; 148pp; English.

XX

CC The invention relates to a novel short interfering nucleic acid (siRNA)

CC that downregulates expression of the BCL2 gene by RNA interference. A

CC siRNA of the invention has cytostatic, immunosuppressive, virucide, and

CC anti-HIV activity. The siRNA are useful for modulation (inhibition) of

CC expression or activity of BCL2 by RNA interference. siRNA are used to

CC modulate expression of BCL2 genes, in cells, tissue explants or

CC organisms, e.g. for treating cancer, autoimmune diseases and viral

CC infections (including by HIV) but also for drug screening, diagnosis,

CC target identification and validation, genetic engineering,

CC pharmacogenomics, studying gene function and gene mapping (e.g. of single

CC -nucleotide polymorphisms). The sequences shown in ADF49273-ADF50143

CC represent siRNA of the invention.

XX

SQ Sequence 21 BP; 3 A; 5 C; 5 G; 2 T; 6 U; 0 Other;

Query Match 61.0%; Score 12.8; DB 10; Length 21;

Best Local Similarity 56.2%; Pred. No. 1.2e+04;

Matches 9; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 6 GTATCTGAAGATCTG 21

Db 4 GUCUCUGAAGACUCUG 19

RESULT 10

ID ADF50117/c

ID ADF50117 standard; RNA; 21 BP.

```
XX ADF50117;
AC
XX 12-FEB-2004 (first entry)
DT
XX Human BCL2 siRNA target sequence SEQ ID NO:845.
DE
XX ss; siRNA; human; BCL2; short interfering nucleic acid; RNA interference;
KW cytosolic; immunosuppressive; virucide; anti-HIV; cancer;
KW autoimmune disease; viral infection; HIV.
XX Homo sapiens.
OS
XX WO2003070969-A2.
PN
XX 28-AUG-2003.
PD
XX 18-FEB-2003; 2003WO-US004908.
PF
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 06-JUN-2002; 2002US-0386782P.
PR 18-JUL-2002; 2002US-0396905P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX Mcswiggen J, Beigelman L;
PI
XX WPI; 2003-712622/67.
DR
XX New short interfering nucleic acid, useful e.g. for treatment and
PT diagnosis of cancer or autoimmune disease, downregulates expression of
PT the BCL2 gene.
XX
XX Example 3; SEQ ID NO 845; 148pp; English.
PS
XX The invention relates to a novel short interfering nucleic acid (siRNA)
CC that downregulates expression of the BCL2 gene by RNA interference. A
CC siRNA of the invention has cytostatic, immunosuppressive, virucide, and
CC anti-HIV activity. The siRNA are useful for modulation (inhibition) of
CC expression or activity of BCL2 by RNA interference. siRNA are used to
CC modulate expression of BCL2 genes, in cells, tissue explants or
CC organisms, e.g. for treating cancer, autoimmune diseases and viral
CC infections (including by HIV) but also for drug screening, diagnosis,
CC target identification and validation, genetic engineering,
CC pharmacogenomics, studying gene function and gene mapping (e.g. of single
CC -nucleotide polymorphisms). The sequences shown in ADF49273-ADF50143
CC represent siRNA of the invention.
XX
SQ Sequence 21 BP; 6 A; 5 C; 5 G; 2 T; 3 U; 0 Other;
Query Match 61.0%; Score 12.8; DB 10; Length 21;
Best Local Similarity 87.5%; Pred. No. 1.2e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Oy 6 GTATCTGAAGAGTCTG 21
Db 16 GTCTCTGAAGACTCTG 1
RESULT 11
ADF50125/c
ID ADF50125 standard; RNA; 21 BP.
XX
AC ADF50125;
XX
XX 12-FEB-2004 (first entry)
DT
XX Human BCL2 siRNA target sequence SEQ ID NO:853.
DE
XX ss; siRNA; human; BCL2; short interfering nucleic acid; RNA interference;
KW cytosolic; immunosuppressive; virucide; anti-HIV; cancer;
KW autoimmune disease; viral infection; HIV.
XX Homo sapiens.
OS
XX WO2003070969-A2.
PN
XX 28-AUG-2003.
PD
XX 18-FEB-2003; 2003WO-US004908.
PF
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 06-JUN-2002; 2002US-0386782P.
PR 18-JUL-2002; 2002US-0396905P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 15-JAN-2003; 2003US-0440129P.
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX Mcswiggen J, Beigelman L;
PI
XX WPI; 2003-712622/67.
DR
XX New short interfering nucleic acid, useful e.g. for treatment and
PT diagnosis of cancer or autoimmune disease, downregulates expression of
PT the BCL2 gene.
XX
XX Example 3; SEQ ID NO 845; 148pp; English.
PS
XX The invention relates to a novel short interfering nucleic acid (siRNA)
CC that downregulates expression of the BCL2 gene by RNA interference. A
CC siRNA of the invention has cytostatic, immunosuppressive, virucide, and
CC anti-HIV activity. The siRNA are useful for modulation (inhibition) of
CC expression or activity of BCL2 by RNA interference. siRNA are used to
CC modulate expression of BCL2 genes, in cells, tissue explants or
CC organisms, e.g. for treating cancer, autoimmune diseases and viral
CC infections (including by HIV) but also for drug screening, diagnosis,
CC target identification and validation, genetic engineering,
CC pharmacogenomics, studying gene function and gene mapping (e.g. of single
CC -nucleotide polymorphisms). The sequences shown in ADF49273-ADF50143
CC represent siRNA of the invention.
XX
SQ Sequence 21 BP; 6 A; 5 C; 5 G; 2 T; 3 U; 0 Other;
Query Match 61.0%; Score 12.8; DB 10; Length 21;
Best Local Similarity 87.5%; Pred. No. 1.2e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Oy 6 GTATCTGAAGAGTCTG 21
Db 16 GTCTCTGAAGACTCTG 1
RESULT 12
ADF50109/c
ID ADF50109 standard; RNA; 21 BP.
XX
AC ADF50109;
XX
XX 12-FEB-2004 (first entry)
DT
XX Human BCL2 siRNA target sequence SEQ ID NO:837.
DE
XX ss; siRNA; human; BCL2; short interfering nucleic acid; RNA interference;
KW cytosolic; immunosuppressive; virucide; anti-HIV; cancer;
KW autoimmune disease; viral infection; HIV.
XX Homo sapiens.
OS
```







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XX 14-NOV-2003; 2003WO-US036787.
XX PF
XX PR
XX PR 14-NOV-2002; 2002US-0426137P.
XX PR 10-SEP-2003; 2003US-0502050P.
XX PA (DHAR-) DHARMA CON INC.
XX PI Anastasia K, Angela R, Devin L, William M, Stephen S;
XX WPI; 2004-420527/39.
XX DR
XX PT Selecting siRNA by selecting an siRNA molecule of 19-25 nucleoside bases
XX PT by selecting a target gene and measuring the functionality of the
XX PT nucleotide sequences that are complementary to a stretch of nucleotides
XX PT of the target sequence.
XX PS Example 12; SEQ ID NO 745; 199pp; English.
XX CC The invention relates to a novel method for selecting siRNA (short
XX CC interfering RNA) comprising selecting an siRNA molecule of 19-25
XX CC nucleoside bases by selecting a target gene and measuring the
XX CC functionality of sequences of 19-25 nucleotides in length that are
XX CC substantially complementary to a stretch of nucleotides of the target
XX CC sequence, where the functionality is dependent upon non-target specific
XX CC criteria. Also claimed are methods for gene-silencing, developing an
XX CC siRNA algorithm for selecting siRNA, selecting an siRNA with improved
XX CC functionality, selecting hyperfunctional siRNA, an siRNA molecule
XX CC effective at silencing Bcl-2, and a kit for gene silencing comprising the
XX CC siRNA. The siRNA molecule comprises a sequence substantially similar to a
XX CC sequence consisting of GGGAGAGUGAUGAAGUA; GAAGUACUCCAUUAUAG;
XX CC GUACGACACCGGAGUA; AGAUAUGAUGAAGUACAU; UGAUAGUCUGCUCAGUUU;
XX CC CAUGCGCCUCUGUUUGA; UGCGCCUCUGUUUGAUUU; GAGAUAGUAGUAGUACUA;
XX CC CGAGUAGUAGUAGUAC; and GAAGACUCUGCUCAGUUU. The siRNA molecule
XX CC comprises a sense strand and an anti-sense strand. The siRNA molecule
XX CC comprises a hairpin. The siRNA molecule comprises between 18 and 30 base
XX CC pairs. The kit comprises at least two siRNA, comprising a first optimised
XX CC siRNA and a second optimised siRNA. The method is useful in selecting
XX CC siRNA for generating a gene silencing reagent. The present sequence is
XX CC used in the exemplification of the invention. The sequence is shown in
XX CC the specification as DNA, but described as siRNA.
XX SQ Sequence 19 BP; 7 A; 4 C; 2 G; 6 T; 0 U; 0 Other;
Query Match 59.0%; Score 12.4; DB 12; Length 19;
Best Local Similarity 92.9%; Pred. No. 1.8e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Oy 8 ATCTGAGAGTCTG 21
Db 18 ATATGAGAGTCTG 5
RESULT 17
ADI79541
ID ADI79541 standard; DNA; 20 BP.
XX AC ADI79541;
XX XX
XX 22-APR-2004 (first entry)
XX DE Human HMG-CoA reductase antisense oligonucleotide, SEQ ID No 64.
XX KW HMG-CoA reductase; 3-hydroxy-3-methylglutaryl-Coenzyme A;
XX KW HMG-CoA reductase; cardiant; antiarteriosclerotic; antilipaseamic;
XX KW antisense gene therapy; cardiovascular disorder; cholesterol metabolism;
XX KW human; ss.
XX XX
XX OS Homo sapiens.
XX XX
XX PN US2004006031-A1.
XX XX
XX PD 08-JAN-2004.
XX PF 02-JUL-2002; 2002US-00190366.
XX XX
XX PR 02-JUL-2002; 2002US-00190366.
XX XX
XX PA (ISIS-) ISIS PHARM INC.
XX PI Dean NM, Freier SM, Dobie KW;
XX WPI; 2004-081743/08.
XX DR
XX PT New compounds, particularly antisense oligonucleotides targeted to a
XX PT nucleic acid encoding HMG-CoA reductase, useful for treating
XX PT atherosclerosis, or a disease involving cholesterol metabolism or
XX PT angiogenesis.
XX PS Example 15; SEQ ID NO 64; 110pp; English.
XX CC The invention relates to novel compounds of 8-80 nucleobases in length
XX CC targeted to, and which specifically hybridises with, a nucleic acid
XX CC molecule encoding 3-hydroxy-3-methylglutaryl-Coenzyme A (HMG-CoA)
XX CC reductase, and inhibits the expression of HMG-CoA reductase. The novel
XX CC compounds have cardiant, antiarteriosclerotic, and antilipaseamic
XX CC activities. The compound can be used to treat disorders by antisense gene
XX CC therapy. The compounds, compositions and methods are useful for treating
XX CC a disease or condition associated with HMG-CoA reductase, such as a
XX CC cardiovascular disorder e.g. atherosclerosis, or a disease or condition
XX CC involving cholesterol metabolism. They are also useful in research and
XX CC diagnostics for modulating the expression of HMG-CoA reductase. This
XX CC polynucleotide sequence represents an antisense oligonucleotide of the
XX CC invention.
XX SQ Sequence 20 BP; 5 A; 3 C; 7 G; 5 T; 0 U; 0 Other;
Query Match 59.0%; Score 12.4; DB 12; Length 20;
Best Local Similarity 92.9%; Pred. No. 1.8e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Oy 8 ATCTGAGAGTCTG 21
Db 3 ATCTGAGAGTCTG 16
RESULT 18
ADI79738/c
ID ADI79738 standard; DNA; 20 BP.
XX AC ADI79738;
XX XX
XX 22-APR-2004 (first entry)
XX DE Human HMG-CoA reductase antisense oligonucleotide, SEQ ID No 261.
XX KW HMG-CoA reductase; 3-hydroxy-3-methylglutaryl-Coenzyme A;
XX KW HMG-CoA reductase; cardiant; antiarteriosclerotic; antilipaseamic;
XX KW antisense gene therapy; cardiovascular disorder; cholesterol metabolism;
XX KW human; ss.
XX XX
XX OS Homo sapiens.
XX XX
XX PN US2004006031-A1.
XX XX
XX PD 08-JAN-2004.
XX PF 02-JUL-2002; 2002US-00190366.
XX XX
XX PR 02-JUL-2002; 2002US-00190366.
XX XX
XX PA (ISIS-) ISIS PHARM INC.
XX PI Dean NM, Freier SM, Dobie KW;
XX WPI; 2004-081743/08.
XX DR
```

XX New compounds, particularly antisense oligonucleotides targeted to a  
PT nucleic acid encoding HMG-CoA reductase, useful for treating  
PT atherosclerosis, or a disease involving cholesterol metabolism or  
PT angiogenesis.  
XX  
PS Example 16; SEQ ID NO 261; 110pp; English.  
XX  
CC The invention relates to novel compounds of 8-80 nucleobases in length  
CC targeted to, and which specifically hybridises with, a nucleic acid  
CC molecule encoding 3-hydroxy-3-methylglutaryl-Coenzyme A (HMG-CoA)  
CC reductase, and inhibits the expression of HMG-CoA reductase. The novel  
CC compounds have cardiant, antiarteriosclerotic, and antilipaeimic  
CC activities. The compound can be used to treat disorders by antisense gene  
CC therapy. The compounds, compositions and methods are useful for treating  
CC a disease or condition associated with HMG-CoA reductase, such as a  
CC cardiovascular disorder e.g. atherosclerosis, or a disease or condition  
CC involving cholesterol metabolism. They are also useful in research and  
CC diagnostics for modulating the expression of HMG-CoA reductase. This  
CC polynucleotide sequence represents an antisense oligonucleotide of the  
CC invention.  
XX  
SQ Sequence 20 BP; 5 A; 7 C; 3 G; 5 T; 0 U; 0 Other;  
Query Match 59.0%; Score 12.4; DB 12; Length 20;  
Best Local Similarity 92.9%; Pred. No. 1.8e+04;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 8 ATCTGAGAGTCTG 21  
Db 18 ATCTGAGAGTCTG 5  
RESULT 19  
AAV97669/c  
ID AAV97669 standard; RNA; 17 BP.  
XX  
AC AAV97669;  
XX  
XX 17-MAR-1999 (first entry)  
XX  
DE Human EGF-R target sequence nucleotide position 3859.  
XX  
XX Human; epidermal growth factor receptor; EGFR; EGF-R; target sequence;  
KW hammethead ribozyme; hairpin ribozyme; inhibition; cell proliferation;  
KW cancer; Genetic drift; detection; mutation; ss.  
XX  
OS Homo sapiens.  
XX  
FN WO9833893-A2.  
XX  
PD 06-AUG-1998.  
XX  
PF 14-JAN-1998; 98WO-US000730.  
XX  
PR 31-JAN-1997; 97US-0036476P.  
PR 04-DEC-1997; 97US-0098516Z.  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
PA (UYAS-) UNIV ASTON.  
XX  
PI Akhtar S, Fell P, Mcswiggen JA;  
XX  
DR WPI; 1998-437449/37.  
XX  
PT Enzymatic nucleic acids - which cleave RNA derived from an epidermal  
PT growth factor receptor, useful for inhibiting cell proliferation and for  
PT treating cancers.  
XX  
PS Claim 5; Page 77; 109pp; English.  
XX  
CC The present invention describes enzymatic nucleic acid molecules (NAMs)  
CC which specifically cleave RNA derived from an epidermal growth factor

CC receptor (EGF-R) gene. AAV97221 to AAV98043 and AAV98979 to AAV99090  
CC represent specifically claimed target sequence from human EGF-R. AAV98044  
CC to AAV98966 and AAV98967 to V9878 represent hammerhead ribozymes and  
CC hairpin ribozymes respectively for human EGF-R. The NAMs are useful for  
CC cleaving EGF-R RNA in the treatment of a condition associated with EGFR  
CC expression levels e.g. to inhibit cell proliferation in the prevention or  
CC treatment of cancers. The NAMs can also be used as diagnostic tools to  
CC examine genetic drift and mutations within diseased cells or to detect  
CC the presence of EGF-R RNA in a cell  
XX  
SQ Sequence 17 BP; 4 A; 6 C; 2 G; 0 T; 5 U; 0 Other;  
Query Match 58.1%; Score 12.2; DB 2; Length 17;  
Best Local Similarity 82.4%; Pred. No. 2.3e+04;  
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 4 GCCTATCTGAAGAGTCT 20  
Db 17 GCGTATCGAAGAGTCT 1  
RESULT 20  
ADB02331/c  
ID ADB02331 standard; DNA; 17 BP.  
XX  
AC ADB02331;  
XX  
XX 20-NOV-2003 (first entry)  
DT  
XX  
DE Human MD24 scanning oligonucleotide SEQ ID 3317.  
XX  
XX Cytostatic; immunostimulant; gene therapy; vaccine; human;  
KW zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;  
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
KW developmental disorder; ss.  
XX  
OS Homo sapiens.  
XX  
FN EP1281758-A2.  
XX  
XX 05-FEB-2003.  
XX  
PF 30-JUL-2002; 2002EP-00016874.  
XX  
PR 02-AUG-2001; 2001US-00922181.  
XX  
PA (AEOM-) AEOMICA INC.  
XX  
PI Shannon M, Gu Y, Nguyen C;  
XX  
DR WPI; 2003-423107/40.  
XX  
PT New zinc finger-containing proteins and nucleic acids, useful in  
PT manufacturing a medicament for treating or preventing a disorder  
PT associated with decreased or increased expression or activity of MD23,  
PT MD24, MD27 or MD212, e.g. cancer.  
XX  
PS Example 8; SEQ ID NO 3317; 103pp; English.  
XX  
CC The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is  
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,  
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome  
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MD23,  
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as

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CC vaccines. The present sequence was used to illustrate the invention.
XX
SQ Sequence 17 BP; 5 A; 6 C; 2 G; 4 T; 0 U; 0 Other;

Query Match      58.1%; Score 12.2; DB 8; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.3e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      1 CTGGCGTATCTGAAGAG 17
Db      17 CTGGAGTCTTTGAAGAG 1

RESULT 21
AAV29903
ID AAV29903 standard; DNA; 20 BP.
XX
AC AAV29903;
XX
DT 27-AUG-2003 (revised)
DT 06-AUG-1998 (first entry)
XX
DE 3' PCR primer used to amplify the KSHV ORF 73.
XX
KW KSHV; body cavity-based lymphoma cell line; Epstein-Barr virus;
KW characterisation; diagnosis; detection; antibody treatment; PCR primer;
KW ss.
XX
OS Synthetic.
OS Human herpesvirus 8.
XX
PN WO9812341-A1.
XX
PD 26-MAR-1998.
XX
PF 15-SEP-1997; 97WO-US016282.
XX
PR 20-SEP-1996; 96US-00717291.
XX
PA (CORR ) CORNELL RES FOUND INC.
XX
PI Cesarman E, Arvanitakis L, Knowles DM, Mesri E;
XX
WPI; 1998-230320/20.
XX
Kaposi's sarcoma-associated herpes virus positive cell lines - comprising
Kaposi's sarcoma-associated herpes virus, used to study virus and to
develop diagnostic and therapeutic products.
XX
PS Example 2; Page 18; 46pp; English.
XX
CC PCR primers AAV29902-03 were used to amplify open reading frame (ORF) 73
of Kaposi's sarcoma-associated herpes virus (KSHV). The specification
describes a cell line comprising KSHV, the cell line preferably being a
body cavity-based lymphoma cell line that does not harbour the Epstein-
Barr virus. The KSHV cell lines can be used for the characterisation of
the properties and functions of the infectious agent KSHV. The purified
virus can be used for diagnostic purposes, e.g. for the detection of
antibodies. The purified virus can also be used for the production of
antibodies which can be used for diagnostic and/or treatment purposes.
CC (Updated on 27-AUG-2003 to correct OS field.)
XX
SQ Sequence 20 BP; 5 A; 3 C; 8 G; 4 T; 0 U; 0 Other;

Query Match      58.1%; Score 12.2; DB 2; Length 20;
Best Local Similarity 82.4%; Pred. No. 2.3e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      5 CGTATCTGAAGAGTCTG 21
Db      1 CGGAGCTAAAGAGTCTG 17

PCR primers AAV29902-03 were used to amplify open reading frame (ORF) 73
of Kaposi's sarcoma-associated herpes virus (KSHV). The specification
describes a cell line comprising KSHV, the cell line preferably being a
body cavity-based lymphoma cell line that does not harbour the Epstein-
Barr virus. The KSHV cell lines can be used for the characterisation of
the properties and functions of the infectious agent KSHV. The purified
virus can be used for diagnostic purposes, e.g. for the detection of
antibodies. The purified virus can also be used for the production of
antibodies which can be used for diagnostic and/or treatment purposes.
CC (Updated on 27-AUG-2003 to correct OS field.)
XX
SQ Sequence 20 BP; 5 A; 3 C; 8 G; 4 T; 0 U; 0 Other;

Query Match      58.1%; Score 12.2; DB 2; Length 20;
Best Local Similarity 82.4%; Pred. No. 2.3e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      5 CGTATCTGAAGAGTCTG 21
Db      1 CGGAGCTAAAGAGTCTG 17

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RESULT 22
AAV31711
ID AAV31711 standard; DNA; 20 BP.
XX
AC AAV31711;
XX
DT 27-AUG-2003 (revised)
DT 11-SEP-1998 (first entry)
XX
DE Kaposi's sarcoma associated herpesvirus ORF73 PCR primer.
XX
KW PCR primer; KSHV; ORF73; Kaposi's sarcoma; ss.
XX
OS Synthetic.
OS Human herpesvirus 8.
XX
PN WO9815289-A1.
XX
PD 16-APR-1998.
XX
PF 09-OCT-1997; 97WO-US018216.
XX
PR 10-OCT-1996; 96US-00728603.
XX
PA (CORR ) CORNELL RES FOUND INC.
XX
PI Cesarman E, Knowles DM;
XX
WPI; 1998-261008/23.
XX
Isolated Kaposi's sarcoma-associated herpesvirus proteins - comprising
antigenic membrane protein, G protein coupled receptor and cyclin protein
used to develop products for diagnosis and therapy.
XX
PS Example 1; Page 26; 68pp; English.
XX
The sequence is that of a 3' PCR primer P16 which was used to detect
transcripts of ORF73 of Kaposi's sarcoma herpesvirus (KSHV). (Updated on
27-AUG-2003 to correct OS field.)
XX
SQ Sequence 20 BP; 5 A; 3 C; 8 G; 4 T; 0 U; 0 Other;

Query Match      58.1%; Score 12.2; DB 2; Length 20;
Best Local Similarity 82.4%; Pred. No. 2.3e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      5 CGTATCTGAAGAGTCTG 21
Db      1 CGGAGCTAAAGAGTCTG 17

RESULT 23
AAD61207/c
ID AAD61207 standard; DNA; 20 BP.
XX
AC AAD61207;
XX
DT 15-JAN-2004 (first entry)
XX
DE Human Ship-1 antisense oligonucleotide ISIS #168288.
XX
Human; Ship-1; SH2-containing phosphatidylinositol phosphatase-1; INPP5D;
insensitivity to apoptotic signal; developmental disorder; inflammation;
immunosuppressive; autoimmune disorder; antisense therapy; antisense;
phosphorothioate backbone; ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER

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FT /note= "Phosphorothioate backbone; All cytidines are 5-  
FT methyl cytidines"  
FT 1..5  
FT /*tag= b  
FT /mod_base= OTHER  
FT /note= "2'-O-methoxyethyl (2'-MOE) nucleotides"  
FT 16..20  
FT modified_base  
FT /*tag= c  
FT /mod_base= OTHER  
FT /note= "2'-O-methoxyethyl (2'-MOE) nucleotides"  
FT US2003114401-A1.  
FT PN 19-JUN-2003.  
FT PD  
FT PF 06-DEC-2001; 2001US-00003919.  
FT PP  
FT PR 06-DEC-2001; 2001US-00003919.  
FT XX (ISIS-) ISIS PHARM INC.  
FT PA  
FT PI Bennett CF, Freier SM;  
FT PS WPI; 2003-801302/75.  
FT DR  
FT CC Antisense compounds targeted to nucleic acid molecule encoding Ship-1,  
FT useful for treating diseases associated with expression of Ship-1, such  
FT as autoimmune and developmental disorders.  
FT XX  
FT PS Claim 3; Page 25; Opp; English.  
FT CC The present invention provides antisense compounds targeted to nucleic  
FT acid molecule encoding Ship-1 (also known as SH2-containing  
FT phosphatidylinositol phosphatase-1 and INPP5D) to modulate/inhibit the  
FT expression of Ship-1. The invention is useful in treatment of diseases  
FT such as insensitivity to apoptotic signals, autoimmune disorders,  
FT developmental disorders and inflammatory disorders. The present sequence  
FT is human Ship-1 antisense oligonucleotide  
FT XX  
FT SQ Sequence 20 BP; 6 A; 7 C; 4 G; 3 T; 0 U; 0 Other;  
FT  
FT Query Match 58.1%; Score 12.2; DB 10; Length 20;  
FT Best Local Similarity 82.4%; Pred. No. 2.3e+04;  
FT Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
FT  
FT Qy 1 CTGGCGTATCTGAAGAG 17  
FT ||||| ||||| |||||  
FT Db 20 CTGGAGTCTCTGCAGAG 4  
FT  
FT RESULT 24  
FT ADH50671/c  
FT ID ADH50671 standard; DNA; 20 BP.  
FT XX  
FT AC ADH50671;  
FT XX  
FT DT 25-MAR-2004 (first entry)  
FT XX  
FT DE Human IRAK-1 DNA, antisense oligonucleotide #65.  
FT XX  
FT KW Antisense therapy; human; interleukin-1 receptor-associated kinase-1;  
FT IL-1 receptor-associated kinase-1; IRAK-1; receptor-associated kinase-1;  
FT hyperproliferative disorder e.g.; cancer; autoimmune disorder;  
FT altered bone metabolism or inflammation; cytostatic; immunosuppressive;  
FT osteopathic; antiinflammatory; phosphorothioate; ss.  
FT XX  
FT OS Homo sapiens.  
FT XX  
FT Key Location/Qualifiers  
FT modified_base 1..20  
FT /*tag= a  
FT /mod_base= OTHER  
FT /note= "This oligonucleotide has a phosphorothioate
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FT backbone and 2'-methoxyethyl (2'-MOE) wings at the 5',  
FT and 3' ends, which are 5 nucleotides in length at each  
FT end. All cytidine residues are 5-methylcytidines"  
FT XX  
FT PN US2003228690-A1.  
FT PD 11-DEC-2003.  
FT PF 10-JUN-2002; 2002US-00167034.  
FT PP  
FT PR 10-JUN-2002; 2002US-00167034.  
FT XX (ISIS-) ISIS PHARM INC.  
FT PA  
FT PI Baker BF, Freier SM, Dobie KW;  
FT PS WPI; 2004-052028/05.  
FT DR  
FT CC New compound having a sequence targeted to a nucleic acid encoding IL-1  
FT receptor-associated kinase-1, useful for preparing a composition for  
FT treating hyperproliferative or autoimmune disorder or inflammation.  
FT XX  
FT PS Example 15; SEQ ID NO 78; 66pp; English.  
FT CC  
FT CC The present invention relates to antisense compounds targeted to a  
FT nucleic acid encoding interleukin-1 (IL-1) receptor-associated kinase-1  
FT (IRAK-1). The antisense compound comprises an antisense oligonucleotide  
FT that specifically hybridises with the nucleic acid and inhibits the  
FT expression of IRAK-1. The antisense oligonucleotide is a chimeric  
FT oligonucleotide. The antisense oligonucleotide comprises at least one  
FT modified internucleoside linkage, preferably a phosphorothioate linkage.  
FT It also comprises at least one modified sugar moiety, preferably a 2'-O-  
FT methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further  
FT comprises at least one modified nucleobase, preferably a 5-  
FT methylcytosine. The antisense oligonucleotides are useful for the  
FT treatment of diseases such as hyperproliferative disorders, e.g. cancer,  
FT autoimmune disorders, altered bone metabolism, and inflammation. The  
FT present sequence represents an antisense oligonucleotide used in the  
FT examples of the present invention.  
FT XX  
FT SQ Sequence 20 BP; 4 A; 9 C; 4 G; 3 T; 0 U; 0 Other;  
FT  
FT Query Match 58.1%; Score 12.2; DB 12; Length 20;  
FT Best Local Similarity 82.4%; Pred. No. 2.3e+04;  
FT Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
FT  
FT Qy 4 GCGTATCTGAAGAGTCT 20  
FT ||||| ||||| |||||  
FT Db 17 GCGTAGCTGGAGGTCT 1  
FT  
FT RESULT 25  
FT ADI50969/c  
FT ID ADI50969 standard; DNA; 17 BP.  
FT XX  
FT AC ADI50969;  
FT XX  
FT DT 15-APR-2004 (first entry)  
FT XX  
FT DE Human tumour suppression/reversion-related DNA sequence SeqID3472.  
FT XX  
FT KW tumour suppression; tumour reversion; apoptosis; virus resistance;  
FT cytostatic; virucide; neuroprotective; nootropic; neuroleptic; probe;  
FT primer; PCR; gene chip; antisense; viral disease; tumour;  
FT cell degeneration; cancer; Alzheimer's disease; schizophrenia; ds; human.  
FT XX  
FT OS Homo sapiens.  
FT XX  
FT PN WO2003025177-A2.  
FT XX  
FT PD 27-MAR-2003.  
FT XX  
FT PF 17-SEP-2002; 2002WO-IB004523.
```

XX 17-SEP-2001; 2001FR-00011980.  
 XX (MOLE-) MOLECULAR ENGINES LAB.  
 PA Telerman A, Amson R, Tuijnder M;  
 XX WPI; 2003-313354/30.  
 XX New isolated nucleic acid, useful for treating viral diseases associated  
 PT with tumors and cell degeneration, also related polypeptides, antibodies  
 PT and transfected cells.  
 XX Disclosure; SEQ ID NO 3472; 30pp; French.

XX This invention relates to novel isolated nucleic acid sequences involved  
 CC in the phenomena of tumour suppression, tumour reversion, apoptosis  
 CC and/or resistance to viruses. The invention may be useful for the  
 CC development of compounds with a cytostatic, virucide, neuroprotective,  
 CC neurotropic or neuroleptic activity. The DNA sequences may be useful as  
 CC probes and primers for detecting, identifying, quantifying and/or  
 CC amplifying nucleic acid, for example as one component of a gene chip, in  
 CC vitro as antisense reagents and for production of recombinant  
 CC polypeptides. The invention may therefore be useful for preparation of  
 CC pharmaceuticals for prevention and/or treatment of viral diseases that  
 CC are characterised by development of tumours or cell degeneration,  
 CC specifically cancer but also Alzheimer's disease and schizophrenia. The  
 CC present sequence is that of a nucleic acid sequence of the invention.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/publishedpct\_sequences

XX Sequence 17 BP; 6 A; 4 C; 2 G; 5 T; 0 U; 0 Other;  
 SQ Query Match 57.1%; Score 12; DB 10; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 2.9e+04;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 TATCTGAAGAGT 18  
 DB 17 TATCTGAAGAGT 6

RESULT 26  
 AAC92623/c  
 ID AAC92623 standard; DNA; 20 BP.  
 XX AAC92623;  
 AC  
 DT 27-MAR-2001 (first entry)  
 XX Human nucleolin phosphorothioate antisense oligonucleotide, SEQ ID NO:73.  
 DE Human nucleolin; P92; C23; phosphoprotein; ribosome biogenesis;  
 XX ribosome transport; cytokinesis; nucleogenesis; cell proliferation;  
 KW cell growth; transcriptional repression; replication;  
 KW signal transduction; chromatin decondensation; Ag-NOR family;  
 KW nucleolin antibody; systemic connective tissue disease; SLE;  
 KW systemic lupus erythematosus;  
 KW scleroderma-like chronic graft versus host disease;  
 KW expression inhibition; tumour formation; cancer; inflammation;  
 KW immune disorder; phosphorothioate; antisense oligonucleotide; ss.  
 XX Homo sapiens.  
 OS  
 XX US6165786-A.  
 PN  
 XX 26-DEC-2000.  
 PD  
 XX 03-NOV-1999; 99US-00433699.  
 PF  
 XX 03-NOV-1999; 99US-00433699.  
 PR  
 XX

(ISIS-) ISIS PHARM INC.  
 Bennett CF, Cowser LM;  
 WPI; 2001-079848/09.  
 Novel antisense compound targeted to human nucleolin which specifically  
 hybridizes with and inhibits the expression of human nucleolin, useful  
 for modulating the expression of nucleolin in cells.  
 Claim 14; Col 43-44; 41pp; English.

Sequences AAC92560-C92639 represent antisense oligonucleotides targetted  
 to the human nucleolin gene, which inhibit its expression. The antisense  
 oligonucleotides were designed to target different regions of the human  
 nucleolin mRNA, and were analysed for their effect on nucleolin mRNA  
 levels by quantitative real-time PCR. Nucleolin (also known as P92 or  
 C23) is the most abundant nucleolar phosphoprotein in actively growing  
 cells. Nucleolin primarily participates in ribosome biogenesis and  
 transport of ribosomal components, being able to transiently bind to pre-  
 ribosomes in the nucleolus via a ribonucleoprotein consensus sequence.  
 However, it has also been shown to be involved in cytokinesis,  
 nucleogenesis, cell proliferation and growth, transcriptional repression,  
 replication, signal transduction, and chromatin decondensation. Nucleolin  
 is a member of the Ag-NOR (active ribosomal gene located in the nucleolar  
 organiser region) family of proteins which are markers of active  
 ribosomal genes, and whose expression is associated with the prediction  
 of tumour growth rate. The presence of antibodies against nucleolin are  
 associated with systemic connective tissue diseases such as systemic  
 lupus erythematosus (SLE) and scleroderma-like chronic graft versus host  
 disease. The oligonucleotides of the invention are useful for diagnosis,  
 prevention and treatment of conditions associated with nucleolin  
 expression, such as tumour formation, immune disorders and inflammation

Sequence 20 BP; 5 A; 6 C; 2 G; 7 T; 0 U; 0 Other;  
 SQ Query Match 57.1%; Score 12; DB 4; Length 20;  
 Best Local Similarity 75.0%; Pred. No. 2.9e+04;  
 Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 TGGCGTATCTGAAGAGTCTG 21  
 DB 20 TGGCAAAATCTAAAGGATG 1

RESULT 27  
 ADP68593/c  
 ID ADP68593 standard; DNA; 20 BP.  
 XX ADP68593;  
 AC  
 DT 09-SEP-2004 (first entry)  
 XX Human PPAR-alpha antisense oligonucleotide seqid 29.  
 DE  
 XX Cytostatic; gene therapy; PPAR-alpha;  
 KW peroxisome proliferator-activated receptor-alpha; PPAR-alpha modulator;  
 KW PPAR-alpha associated disorder; hyperproliferative disorder; human;  
 KW antisense oligonucleotide; antisense technology; ss.  
 XX Homo sapiens.  
 OS  
 XX US2004115637-A1.  
 PN  
 XX 17-JUN-2004.  
 PD  
 XX 11-DEC-2002; 2002US-00317500.  
 PF  
 XX 11-DEC-2002; 2002US-00317500.  
 PR  
 XX (ISIS-) ISIS PHARM INC.  
 PA  
 XX McKay R, Dobie KW;  
 PI

XX WPI; 2004-449378/42.  
 XX  
 PT New oligonucleotide compound that inhibits expression of PPAR-alpha,  
 PT useful for preparing a composition for treating hyperproliferative  
 PT disorders, e.g. cancer.  
 XX  
 XX Example 15; SEQ ID NO 29; 121pp; English.  
 XX  
 XX The invention describes a compound, having a sequence comprising 8-80 bp  
 CC targeted to a nucleic acid encoding PPAR-alpha (peroxisome proliferator-  
 CC activated receptor-alpha), that specifically hybridises with the nucleic  
 CC acid encoding PPAR-alpha comprising 86001-bp sequence and inhibits  
 CC expression of PPAR-alpha. Also described are: a method of inhibiting the  
 CC expression of PPAR-alpha in cells or tissues; a method of screening for a  
 CC modulator of PPAR-alpha; a diagnostic method for identifying a disease  
 CC state; a kit or assay device comprising the compound; and a method of  
 CC treating an animal having a disease or condition associated with PPAR-  
 CC alpha. The oligonucleotide compound is useful for preparing a composition  
 CC for treating hyperproliferative disorder e.g. cancer. This sequence  
 CC represents a human peroxisome proliferator-activated receptor-alpha (PPAR  
 CC -alpha) antisense oligonucleotide.  
 XX  
 XX Sequence 20 BP; 6 A; 4 C; 4 G; 6 T; 0 U; 0 Other;  
 SQ

Query Match 57.1%; Score 12; DB 12; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 2.9e+04;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 7 TATCTGAAGAGT 18  
 |||||  
 DB 20 TATCTGAAGAGT 9

RESULT 28  
 ADP68748  
 ID ADP68748 standard; DNA; 20 BP.  
 XX  
 XX ADP68748;  
 AC  
 XX  
 DT 09-SEP-2004 (first entry)  
 DE Human PPAR-alpha antisense oligonucleotide seqid 184.  
 XX  
 XX cytostatic; gene therapy; PPAR-alpha;  
 KW peroxisome proliferator-activated receptor-alpha; PPAR-alpha modulator;  
 KW PPAR-alpha associated disorder; hyperproliferative disorder; human;  
 KW antisense oligonucleotide; antisense technology; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX US2004115637-A1.  
 PN  
 XX 17-JUN-2004.  
 PD  
 XX  
 PF 11-DEC-2002; 2002US-00317500.  
 XX  
 PR 11-DEC-2002; 2002US-00317500.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 PA  
 XX Mckay R, Dobie KW;  
 PI  
 XX WPI; 2004-449378/42.  
 DR  
 XX New oligonucleotide compound that inhibits expression of PPAR-alpha,  
 XX useful for preparing a composition for treating hyperproliferative  
 PT disorders, e.g. cancer.  
 PT  
 XX Example 16; SEQ ID NO 184; 121pp; English.  
 PS  
 XX The invention describes a compound, having a sequence comprising 8-80 bp  
 CC targeted to a nucleic acid encoding PPAR-alpha (peroxisome proliferator-  
 CC activated receptor-alpha), that specifically hybridises with the nucleic  
 CC acid encoding PPAR-alpha comprising 86001-bp sequence and inhibits  
 CC expression of PPAR-alpha. Also described are: a method of inhibiting the  
 CC expression of PPAR-alpha in cells or tissues; a method of screening for a  
 CC modulator of PPAR-alpha; a diagnostic method for identifying a disease  
 CC state; a kit or assay device comprising the compound; and a method of  
 CC treating an animal having a disease or condition associated with PPAR-  
 CC alpha. The oligonucleotide compound is useful for preparing a composition  
 CC for treating hyperproliferative disorder e.g. cancer. This sequence  
 CC represents a human peroxisome proliferator-activated receptor-alpha (PPAR  
 CC -alpha) antisense oligonucleotide.  
 XX

CC activated receptor-alpha), that specifically hybridises with the nucleic  
 CC acid encoding PPAR-alpha comprising 86001-bp sequence and inhibits  
 CC expression of PPAR-alpha. Also described are: a method of inhibiting the  
 CC expression of PPAR-alpha in cells or tissues; a method of screening for a  
 CC modulator of PPAR-alpha; a diagnostic method for identifying a disease  
 CC state; a kit or assay device comprising the compound; and a method of  
 CC treating an animal having a disease or condition associated with PPAR-  
 CC alpha. The oligonucleotide compound is useful for preparing a composition  
 CC for treating hyperproliferative disorder e.g. cancer. This sequence  
 CC represents a human peroxisome proliferator-activated receptor-alpha (PPAR  
 CC -alpha) antisense oligonucleotide.  
 XX  
 XX Sequence 20 BP; 6 A; 4 C; 4 G; 6 T; 0 U; 0 Other;  
 SQ

Query Match 57.1%; Score 12; DB 12; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 2.9e+04;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 7 TATCTGAAGAGT 18  
 |||||  
 DB 1 TATCTGAAGAGT 12

RESULT 29  
 AAA46172/c  
 ID AAA46172 standard; DNA; 21 BP.  
 XX  
 XX AAA46172;  
 AC  
 XX  
 DT 06-AUG-2003 (revised)  
 DT 27-SEP-2000 (first entry)  
 DE PCR primer for GST.  
 XX  
 XX GST-GFP fusion construct; circular; green fluorescent protein;  
 KW glutathione S-transferase; eukaryotic diploid multicellular parasite;  
 KW universal graft; transgenic eukaryotic parasite; acquired deficiency;  
 KW genetic deficiency; hormone deficiency; metabolic deficiency;  
 KW haematological deficiency; immunological deficiency; immunotherapy;  
 KW anti-microbial therapy; anti-cancer therapy; drug addiction;  
 KW poisoning condition; geriatric condition; PCR primer; ss.  
 XX  
 OS Schistosoma sp.  
 XX  
 XX WO200032804-A1.  
 PN  
 XX 08-JUN-2000.  
 PD  
 XX  
 PF 01-DEC-1999; 99WO-IL000651.  
 XX  
 PR 01-DEC-1998; 98US-00201850.  
 XX  
 XX (YISS) YISSUM RES & DEV CO.  
 PA  
 XX Hamburger J, Laban A;  
 PI  
 XX WPI; 2000-412348/35.  
 DR  
 XX Eukaryotic diploid multicellular parasite useful as universal grafts for  
 XX invivo delivery of beneficial gene products in humans and animals  
 PT involves transformation with a transgene.  
 PT  
 XX Example 2; Page 36; 90pp; English.  
 PS  
 XX This sequence represents a PCR primer use to isolate DNA encoding the  
 CC Shistosoma glutathion s-transferase protein. The amplified sequence can  
 CC be used in a construct to transform the parasite of the invention. The  
 CC parasite is a eukaryotic diploid multicellular parasite transformed with  
 CC a transgene. Transgenic eukaryotic parasites are useful as universal  
 CC grafts for in vivo delivery of beneficial gene product in humans and  
 CC animals. The parasites can particularly be used for restoration of  
 CC deficiencies whether acquired or genetic, such as hormone deficiencies,  
 CC metabolic deficiencies, haematological deficiencies, immunological



CC deficiencies, immunotherapy, anti-microbial therapy, anti-cancer therapy.  
 CC They can also be used for treatment of drug addiction, of poisoning  
 CC conditions, and for amelioration of geriatric conditions. Treatment of  
 CC humans with in vivo transgenes are universally compatible, readily  
 CC available and inexpensive. Genotypic alterations of the patients is  
 CC avoided, reducing risks of mutagenesis and malignant transformation.  
 CC (Updated on 06-AUG-2003 to correct OS field.)  
 CC  
 CC  
 CC

SQ Sequence 21 BP; 4 A; 10 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 57.1%; Score 12; DB 3; Length 21;  
 Best Local Similarity 75.0%; Pred. No. 3e+04;  
 Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 2 TGGCGTATCTCAAGAGTCTG 21  
 |||||  
 Db 21 TGGAGCATGTGGAGGAGCTG 2

## RESULT 30

AAF97151/C  
 ID AAF97151 standard; DNA; 21 BP.

XX AC AAF97151;

XX DT 18-NOV-2004 (revised)  
 DT 06-JUN-2001 (first entry)

XX Human gene single nucleotide polymorphism #1912.

XX Human; variant thrombospondin 1; variant thrombospondin 4; SNP;  
 KW polymorphism; vascular disease; coronary artery disease; forensics;  
 KW myocardial infarction; atherosclerosis; stroke; venous thromboembolism;  
 KW pulmonary embolism; paternity test; ds.  
 XX

OS Homo sapiens.

OS Unidentified.

XX Key Location/Qualifiers  
 FT variation  
 FT 11  
 FT /\*tag= a  
 FT /standard\_names "Single nucleotide polymorphism"

XX WO200118250-A2.  
 XX 15-MAR-2001.

XX PD 07-SEP-2000; 2000WO-US024503.  
 XX PF 10-SEP-1999; 98US-0153357P.  
 XX PR 26-JUL-2000; 2000US-0220947P.  
 XX PR 16-AUG-2000; 2000US-0225724P.

XX (WHED ) WHITEHEAD INST BIOMEDICAL RES.  
 PA (MILL-) MILLENNIUM PHARM INC.  
 XX Lander ES, Gargill M, Ireland JS, Bolk S, Daley GO, Mccarthy JJ;  
 PI WPI; 2001-226749/23.  
 XX

XX Nucleic acids comprising single nucleotide polymorphisms, useful in  
 PT applications such as forensics, paternity testing, medicine, genetic  
 PT analysis and phenotype correlations to diseases such as diabetes and  
 PT atherosclerosis.  
 XX Example; Page 178; 242pp; English.

XX The present invention provides a method of diagnosing a vascular disease  
 CC in an individual, involving determining the sequence at various  
 CC polymorphic sites within the human thrombospondin 1 and thrombospondin 4  
 CC genes. The sequences at a number of polymorphic sites are also provided  
 CC in the specification. In particular, the method can be used in the  
 CC diagnosis of atherosclerosis, myocardial infarction, coronary heart

CC disease, stroke, peripheral vascular diseases, venous thromboembolism and  
 CC pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also  
 CC useful in forensics, paternity testing, genetic analysis and phenotype  
 CC correlations to diseases. The present sequence is an example of one of  
 CC the human gene SNPs shown in the specification  
 CC  
 CC Revised record issued on 18-NOV-2004 : The variation feature was  
 CC incorrectly given a capital V  
 CC  
 CC  
 CC

SQ Sequence 21 BP; 5 A; 5 C; 6 G; 5 T; 0 U; 0 Other;  
 Query Match 57.1%; Score 12; DB 4; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 3e+04;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 CTGAGAGAGTCTG 21  
 |||||  
 Db 16 CTGAAGAGTCTG 5

## RESULT 31

AAQ51964  
 ID AAQ51964 standard; RNA; 17 BP.

XX AC AAQ51964;

XX DT 25-MAR-2003 (revised)  
 DT 26-MAY-1994 (first entry)

XX BCL-2 mRNA ribozyme cleavable nucleotide (2100).

XX Multiple drug resistance; mdr-1; ribozyme; membrane protein; liver;  
 KW resistance; chemotherapeutic agent; colchicine; doxorubicin; colon;  
 KW actinomycin D; vinblastine; small intestine; kidney; adrenal gland;  
 KW adenocarcinoma; bowel; transformed phenotype; promyelocytic leukemia;  
 KW human; chronic myelogenous leukemia; CMV; follicular lymphoma;  
 KW B-cell acute lymphocytic leukemia; breast cancer; colon carcinoma;  
 KW neuroblastoma; lung cancer; genetic drift; mutation; hammerhead motif;  
 KW hairpin; hepatitis delta virus; group I intron; RNaseP; ss.

XX Homo sapiens.

XX WO9323057-A1.

XX 25-NOV-1993.

XX 13-MAY-1993; 93WO-US004573.

XX 14-MAY-1992; 92US-00882822.

XX 14-MAY-1992; 92US-00882885.

XX 26-AUG-1992; 92US-00936110.

XX 26-AUG-1992; 92US-00936421.

XX 26-AUG-1992; 92US-00936422.

XX 26-AUG-1992; 92US-00936531.

XX 07-DEC-1992; 92US-00936532.

XX 19-JAN-1993; 93US-00006122.

XX 19-JAN-1993; 93US-00008910.

XX (RIBO-) RIBOZYME PHARM INC.

XX Thompson JD, Draper KG;

XX WPI; 1993-386203/48.

XX New enzymatic RNA molecules (ribozymes) - which cleave mRNA associated  
 PT with tumours or mRNA expressed from gene encoding multiple drug  
 PT resistance.  
 XX Claim 3; Fig 6; 69pp; English.

XX The sequences given in AAQ51825-2266 represent areas of mRNAs which are  
 CC associated with development or maintenance of chronic myelogenous



CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 CC DNase) an inozyme (an endolytic nucleic acid cleaving a RNA molecule  
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
 CC an amberyzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA  
 CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 CC the cell and treat a patient having a condition associated with the level  
 CC of CD20. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 CC immune thrombocytopenia, and inflammatory arthropathy. The NOGO-  
 CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the  
 CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 CC nucleic acid may be contacted with a cell to reduce NOGO activity of the  
 CC cell and treat a patient having a condition associated with the level of  
 CC NOGO. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the NOGO-targeting nucleic acid may be used to  
 CC treat central nervous system (CNS) injury and cerebrovascular accident  
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 CC disease, muscular dystrophy, and/or other neurodegenerative disease  
 CC states which respond to the modulation of NOGO expression. The present  
 CC sequence is an inozyme of the invention

XX SQ Sequence 17 BP; 5 A; 6 C; 2 G; 0 T; 4 U; 0 Other;

Query Match 56.2%; Score 11.8; DB 4; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 3.6e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 CGGTATCTGAAGAGT 18

Db 16 GCGTATGTCAGAGT 2

RESULT 34

ADP92273

ID ADF92273 standard; DNA; 17 BP.

XX AC ADF92273;

XX DT 26-FEB-2004 (first entry)

XX DE Human cytokeratin 19-derived F3 PCR primer - SEQ ID 361.

XX human; cytokeratin; CK; LAMP; loop mediated isothermal amplification;  
 KW tumour metastasis; prostate cancer; lymphoma; human; CK19; ss; primer;  
 KW PCR; F3.

XX OS Homo sapiens.

XX PN WO2003097878-A1.

XX PD 27-NOV-2003.

XX PF 20-MAY-2003; 2003WO-JP006256.

XX PR 21-MAY-2002; 2002JP-00145689.

XX PR 17-JUN-2002; 2002JP-00175271.

XX PR 09-JUL-2002; 2002JP-00199759.

XX PA (SYSM-) SYSMEX CORP.

XX PI Tada S, Akai Y, Imura Y, Abe S, Minekawa H;

XX DR WPI; 2004-012543/01.

XX PT LAMP nucleic acid amplification primers for detection of cytokeratin

PT expression as indicator in diagnosis of tumour metastasis.

XX PS Claim 19; SEQ ID NO 361; 266pp; Japanese.

XX CC The invention relates to novel nucleic acid amplification primers for the  
 CC detection of human cytokeratin (CK) 18, 19 or 20 expression by the LAMP  
 CC (loop mediated isothermal amplification) method. The primers of the  
 CC invention may be useful for the detecting cytokeratin 18-20 expression as  
 CC an indicator for the diagnosis of tumour metastasis, particularly  
 CC prostate cancer and lymphoma. The amplification using the primers is  
 CC highly efficient and allows very sensitive detection of tumour  
 CC metastasis. The current sequence is that of the human CK19-related PCR  
 CC primer of the invention.

XX SQ Sequence 17 BP; 4 A; 5 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 56.2%; Score 11.8; DB 12; Length 17;

Best Local Similarity 86.7%; Pred. No. 3.6e+04;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CTGCGGTATCTGAAG 15

Db 3 CTGCGGTATCTGAAG 17

RESULT 35

ADQ61034

ID ADQ61034 standard; RNA; 19 BP.

XX AC ADQ61034;

XX DT 09-SEP-2004 (first entry)

XX DE Anti-PLT1 siRNA related DNA sequence SEQ ID NO:736.

XX ss; siRNA; gene silencing; Bcl-2; optimised; short interfering RNA;  
 KW RNA interference.

XX OS Synthetic.

XX PN WO2004045543-A2.

XX PD 03-JUN-2004.

XX PF 14-NOV-2003; 2003WO-US036787.

XX PR 14-NOV-2002; 2002US-0426137P.

XX PR 10-SEP-2003; 2003US-0502050P.

XX PA (DHAR-) DHARMA CON INC.

XX PI Anastasia K, Angela R, Devin L, William M, Stephen S;

XX DR WPI; 2004-420527/39.

XX Selecting siRNA by selecting an siRNA molecule of 19-25 nucleoside bases  
 PT by selecting a target gene and measuring the functionality of the  
 PT nucleotide sequences that are complementary to a stretch of nucleotides  
 PT of the target sequence.

XX Example 12; SEQ ID NO 736; 199pp; English.

XX The invention relates to a novel method for selecting siRNA (short  
 CC interfering RNA) comprising selecting an siRNA molecule of 19-25  
 CC nucleoside bases by selecting a target gene and measuring the  
 CC functionality of sequences of 19-25 nucleotides in length that are  
 CC substantially complementary to a stretch of nucleotides of the target  
 CC sequence, where the functionality is dependent upon non-target specific  
 CC criteria. Also claimed are methods for gene-silencing, developing an  
 CC siRNA algorithm for selecting siRNA, selecting an siRNA with improved  
 CC functionality, selecting hyperfunctional siRNA, an siRNA molecule  
 CC effective at silencing Bcl-2, and a kit for gene silencing comprising the  
 CC siRNA. The siRNA molecule comprises a sequence substantially similar to a

sequence consisting of GGGAGUAGUGAAGUA; GAAGUACAUUUUAAG;  
 CC GUAGCAACCGGAGUA; AGUACUGUAGUACAU; UGAAGACUCUCAGUUU;  
 CC CAUGCGCCUGUUGA; UCGGCCUUGUUGAUUU; GAGUAGUAGAGUACA;  
 CC GGAUAGUAGUAGUAGUAC; and GAAGACUCUCUCAGUUUG. The siRNA molecule  
 CC comprises a sense strand and an anti-sense strand. The siRNA molecule  
 CC pairs. The siRNA molecule comprises between 18 and 30 base  
 CC siRNA. The kit comprises at least two siRNA, comprising a first optimised  
 CC siRNA and a second optimised siRNA. The method is useful in selecting  
 CC siRNA for generating a gene silencing reagent. The present sequence is  
 CC used in the exemplification of the invention. The sequence is shown in  
 CC the specification as DNA, but described as siRNA.

XX SQ Sequence 19 BP; 7 A; 2 C; 7 G; 3 T; 0 U; 0 Other;  
 Query Match 56.2%; Score 11.8; DB 12; Length 19;  
 Best Local Similarity 86.7%; Pred. No. 3.7e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 GCGGTATCTGAAGAG 17  
 Db 2 GACGTAAGAG 16

RESULT 36  
 ADR79337/c  
 ID ADR79337 standard; DNA; 19 BP.  
 XX AC ADR79337;  
 XX DT 16-DEC-2004 (first entry)  
 XX DE Human apolipoprotein B (ApoB) oligonucleotide seqid 3822.  
 XX KW antilipemic; cardiatic; vasotropic; antiarteriosclerotic; antidiabetic;  
 KW cytosatic; anticonvulsant; nootropic; muscular; anti-HIV;  
 KW RNA interference; siRNA; antisense technology; lipid metabolism;  
 KW cholesterol imbalance; dyslipidaemia hypercholesterolaemia;  
 KW coronary artery disease; CAD; coronary heart disease; CHD;  
 KW atherosclerosis; hepatic glucose production;  
 KW glucose-metabolism-related disorder; diabetes; cancer; breast cancer;  
 KW colon cancer; lung cancer; neurological disease; Huntington disease;  
 KW spinocerebellar ataxia; viral disease; AIDS; apolipoprotein B; apob; ss.  
 XX OS Homo sapiens.  
 XX XX WO2004080406-A2.  
 XX PD 23-SEP-2004.  
 XX PF 08-MAR-2004; 2004WO-US007070.  
 XX PR 07-MAR-2003; 2003US-0452682P.  
 XX PR 12-MAR-2003; 2003US-0454265P.  
 XX PR 13-MAR-2003; 2003US-0454962P.  
 XX PR 13-MAR-2003; 2003US-0455050P.  
 XX PR 14-APR-2003; 2003US-0462894P.  
 XX PR 17-APR-2003; 2003US-0463772P.  
 XX PR 25-APR-2003; 2003US-0465655P.  
 XX PR 25-APR-2003; 2003US-0465802P.  
 XX PR 09-MAY-2003; 2003US-0469612P.  
 XX PR 08-AUG-2003; 2003US-0493986P.  
 XX PR 11-AUG-2003; 2003US-0494597P.  
 XX PR 26-SEP-2003; 2003US-0506341P.  
 XX PR 09-OCT-2003; 2003US-0510246P.  
 XX PR 10-OCT-2003; 2003US-0510318P.  
 XX PR 07-NOV-2003; 2003US-0518453P.  
 XX XX (ALNY-) ALNYLAM PHARM.  
 XX PA Manoharan M, Bumcrot D;  
 XX PI WPI; 2004-677362/66.  
 XX DR  
 XX XX

PT Interference RNA agent useful for treating dyslipidemias, coronary artery  
 PT disease, diabetes, cancer or neurological disease, comprises sense  
 PT sequence and antisense sequence which has specific modifications.  
 XX Example 5; SEQ ID NO 3822; 378pp; English.  
 XX The invention describes a RNA interference (siRNA) agent (I) comprising a  
 CC sense sequence and an antisense sequence, where the sense sequences have  
 CC one or more asymmetrical 2'-O alkyl modifications, the antisense  
 CC sequences have one or more asymmetrical phosphorothioate modifications  
 CC and the antisense sequence targets a human gene sequence. Also described  
 CC are: a pharmaceutical preparation comprising (I); reducing (M1) apob-100  
 CC levels or glucose-6-phosphatase levels in a subject; producing (I);  
 CC stabilising (I), involves selecting a sequence with activity and  
 CC introducing one or more asymmetrical modification in the sequence, where  
 CC the modification decreases nuclease sensitivity while not decreasing its  
 CC activity; a kit comprising (I) and instruction for its use; and a device  
 CC that can be dispense or administer a composition comprising (I). (I) is  
 CC useful for reducing apob-100 levels or glucose-6-phosphatase levels. (M1)  
 CC is useful for reducing apob-100 levels or glucose-6-phosphatase levels.  
 CC The subject is suffering from a disorder characterised by elevated or  
 CC otherwise unwanted expression of apob-100, elevated or otherwise unwanted  
 CC levels of cholesterol, and/or dysregulation of lipid metabolism. The  
 CC disorder is chosen from the HDL/LDL cholesterol imbalance,  
 CC dyslipidaemias, hypercholesterolaemia, statin-resistant  
 CC hypercholesterolaemia, coronary artery disease (CAD), coronary heart  
 CC disease (CHD) and atherosclerosis. (I) is administered to a subject to  
 CC inhibit hepatic glucose production or for treating glucose-metabolism-  
 CC related disorder e.g. diabetes or type-2 diabetes. (I) is useful for  
 CC treating the diseases as mentioned above, cancer (e.g. breast, colon or  
 CC lung cancer), neurological disease (e.g., Huntington disease or  
 CC spinocerebellar ataxia) or viral disease (e.g., AIDS). This sequence  
 CC represents a human apolipoprotein B (ApoB) antisense oligonucleotide that  
 CC can be used to control Apob gene expression.

XX SQ Sequence 19 BP; 5 A; 5 C; 4 G; 5 T; 0 U; 0 Other;  
 Query Match 56.2%; Score 11.8; DB 13; Length 19;  
 Best Local Similarity 86.7%; Pred. No. 3.7e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 7 TATCTGAAGAGCTCTG 21  
 Db 17 TTTCTGAAGAGCTCTG 3

RESULT 37  
 ADR80012/c  
 ID ADR80012 standard; DNA; 19 BP.  
 XX AC ADR80012;  
 XX DT 16-DEC-2004 (first entry)  
 XX DE Human apolipoprotein B (ApoB) oligonucleotide seqid 4508.  
 XX KW antilipemic; cardiatic; vasotropic; antiarteriosclerotic; antidiabetic;  
 KW cytosatic; anticonvulsant; nootropic; muscular; anti-HIV;  
 KW RNA interference; siRNA; antisense technology; lipid metabolism;  
 KW cholesterol imbalance; dyslipidaemia hypercholesterolaemia;  
 KW coronary artery disease; CAD; coronary heart disease; CHD;  
 KW atherosclerosis; hepatic glucose production;  
 KW glucose-metabolism-related disorder; diabetes; cancer; breast cancer;  
 KW colon cancer; lung cancer; neurological disease; Huntington disease;  
 KW spinocerebellar ataxia; viral disease; AIDS; apolipoprotein B; apob; ss.  
 XX OS Homo sapiens.  
 XX XX WO2004080406-A2.  
 XX PD 23-SEP-2004.  
 XX PF 08-MAR-2004; 2004WO-US007070.

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XX PR 07-MAR-2003; 2003US-0452682P.
XX PR 12-MAR-2003; 2003US-0454265P.
XX PR 13-MAR-2003; 2003US-0454962P.
XX PR 13-MAR-2003; 2003US-0455050P.
XX PR 14-APR-2003; 2003US-0462894P.
XX PR 17-APR-2003; 2003US-0463772P.
XX PR 25-APR-2003; 2003US-0465665P.
XX PR 25-APR-2003; 2003US-0465802P.
XX PR 09-MAY-2003; 2003US-0469612P.
XX PR 08-AUG-2003; 2003US-0469612P.
XX PR 08-AUG-2003; 2003US-0493986P.
XX PR 11-AUG-2003; 2003US-0494597P.
XX PR 26-SEP-2003; 2003US-0494597P.
XX PR 09-OCT-2003; 2003US-0506341P.
XX PR 10-OCT-2003; 2003US-0510246P.
XX PR 07-NOV-2003; 2003US-0518453P.
XX FA (ALNY-) ALNYLAM PHARM.
XX PI Manoharan M, Bumcrot D;
XX PI WPI; 2004-677362/66.
XX DR Interference RNA agent useful for treating dyslipidemias, coronary artery
XX PT disease, diabetes, cancer or neurological disease, comprises sense
XX PT sequence and antisense sequence which has specific modifications.
XX PS Example 5; SEQ ID NO 4508; 378pp; English.
XX CC The invention describes a RNA interference (iRNA) agent (I) comprising a
XX CC sense sequence and an antisense sequence, where the sense sequences have
XX CC one or more asymmetrical 2'-O alkyl modifications, the antisense
XX CC sequences have one or more asymmetrical phosphorothioate modifications
XX CC and the antisense sequence targets a human gene sequence. Also described
XX CC are a pharmaceutical preparation comprising (I); reducing (M1) apoB-100
XX CC levels or glucose-6-phosphatase levels in a subject; producing (I);
XX CC stabilising (I), involves selecting a sequence with activity and
XX CC introducing one or more asymmetrical modification in the sequence, where
XX CC the modification decreases nuclease sensitivity while not decreasing its
XX CC activity; a kit comprising (I) and instruction for its use; and a device
XX CC that can be dispense or administer a composition comprising (I). (I) is
XX CC useful for reducing apoB-100 levels or glucose-6-phosphatase levels. (M1)
XX CC is useful for reducing apoB-100 levels or glucose-6-phosphatase levels. (M1)
XX CC The subject is suffering from a disorder characterised by elevated or
XX CC otherwise unwanted expression of apoB-100, elevated or otherwise unwanted
XX CC levels of cholesterol, and/or dysregulation of lipid metabolism. The
XX CC disorder is chosen from the HDL/LDL cholesterol imbalance,
XX CC dyslipidaemias, hypercholesterolaemia, statin-resistant
XX CC hypercholesterolaemia, coronary artery disease (CAD), coronary heart
XX CC disease (CHD) and atherosclerosis. (I) is administered to a subject to
XX CC inhibit hepatic glucose production or for treating glucose-metabolism-
XX CC related disorder e.g. diabetes or type-2 diabetes. (I) is useful for
XX CC treating the diseases as mentioned above, cancer (e.g. breast, colon or
XX CC lung cancer), neurological disease (e.g., Huntington disease or
XX CC spinocerebellar ataxia) or viral disease (e.g., AIDS). This sequence
XX CC represents a human apolipoprotein B (ApoB) antisense oligonucleotide that
XX CC can be used to control ApoB gene expression.
XX SQ Sequence 19 BP; 5 A; 5 C; 4 G; 5 T; 0 U; 0 Other;
XX SQ Query Match 56.2%; Score 11.8; DB 13; Length 19;
XX SQ Best Local Similarity 86.7%; Pred. No. 3.7e+04;
XX SQ Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX SQ
XX QY 7 TATCTGAAGAGCTCTG 21
XX DB 16 TTTCTGAAGAGCTG 2
XX
XX RESULT 38
XX ADR75873/c
XX ID ADR75873 standard; DNA; 19 BP.
XX

```

ADR75873;

16-DEC-2004 (first entry)

Human apolipoprotein B (ApoB) oligonucleotide seqid 358.

antilipemic; cardiatic; vasotropic; antiarteriosclerotic; antidiabetic; cytostatic; anticonvulsant; nootropic; muscula; anti-HIV; RNA interference; iRNA; antisense technology; lipid metabolism; cholesterol imbalance; dyslipidaemia hypercholesterolaemia; coronary artery disease; CAD; coronary heart disease; CHD; atherosclerosis; hepatic glucose production; glucose-metabolism-related disorder; diabetes; cancer; breast cancer; colon cancer; lung cancer; neurological disease; Huntington disease; spinocerebellar ataxia; viral disease; AIDS; apolipoprotein B; apoB; ss.

Homo sapiens.

WO2004080406-A2.

23-SEP-2004.

08-MAR-2004; 2004WO-US007070.

07-MAR-2003; 2003US-0452682P.

12-MAR-2003; 2003US-0454265P.

13-MAR-2003; 2003US-0454962P.

13-MAR-2003; 2003US-0455050P.

14-APR-2003; 2003US-0462894P.

17-APR-2003; 2003US-0463772P.

25-APR-2003; 2003US-0465665P.

25-APR-2003; 2003US-0465802P.

09-MAY-2003; 2003US-0469612P.

08-AUG-2003; 2003US-0493986P.

11-AUG-2003; 2003US-0494597P.

26-SEP-2003; 2003US-0506341P.

09-OCT-2003; 2003US-0510246P.

10-OCT-2003; 2003US-0510318P.

07-NOV-2003; 2003US-0518453P.

(ALNY-) ALNYLAM PHARM.

Manoharan M, Bumcrot D;

WPI; 2004-677362/66.

Interference RNA agent useful for treating dyslipidemias, coronary artery disease, diabetes, cancer or neurological disease, comprises sense sequence and antisense sequence which has specific modifications.

Example 5; SEQ ID NO 358; 378pp; English.

The invention describes a RNA interference (iRNA) agent (I) comprising a sense sequence and an antisense sequence, where the sense sequences have one or more asymmetrical 2'-O alkyl modifications, the antisense sequences have one or more asymmetrical phosphorothioate modifications and the antisense sequence targets a human gene sequence. Also described are a pharmaceutical preparation comprising (I); reducing (M1) apoB-100 levels or glucose-6-phosphatase levels in a subject; producing (I); stabilising (I), involves selecting a sequence with activity and introducing one or more asymmetrical modification in the sequence, where the modification decreases nuclease sensitivity while not decreasing its activity; a kit comprising (I) and instruction for its use; and a device that can be dispense or administer a composition comprising (I). (I) is useful for reducing apoB-100 levels or glucose-6-phosphatase levels. (M1) is useful for reducing apoB-100 levels or glucose-6-phosphatase levels. (M1) The subject is suffering from a disorder characterised by elevated or otherwise unwanted expression of apoB-100, elevated or otherwise unwanted levels of cholesterol, and/or dysregulation of lipid metabolism. The disorder is chosen from the HDL/LDL cholesterol imbalance, dyslipidaemias, hypercholesterolaemia, statin-resistant hypercholesterolaemia, coronary artery disease (CAD), coronary heart disease (CHD) and atherosclerosis. (I) is administered to a subject to inhibit hepatic glucose production or for treating glucose-metabolism-related disorder e.g. diabetes or type-2 diabetes. (I) is useful for treating the diseases as mentioned above, cancer (e.g. breast, colon or lung cancer), neurological disease (e.g., Huntington disease or spinocerebellar ataxia) or viral disease (e.g., AIDS). This sequence represents a human apolipoprotein B (ApoB) antisense oligonucleotide that can be used to control ApoB gene expression.

Sequence 19 BP; 5 A; 5 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 56.2%; Score 11.8; DB 13; Length 19;

Best Local Similarity 86.7%; Pred. No. 3.7e+04;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 7 TATCTGAAGAGCTCTG 21

DB 16 TTTCTGAAGAGCTG 2

RESULT 38

ADR75873/c

ID ADR75873 standard; DNA; 19 BP.

CC inhibit hepatic glucose production or for treating glucose-metabolism-  
 CC related disorder e.g. diabetes or type-2 diabetes, (I) is useful for  
 CC treating the diseases as mentioned above, cancer (e.g. breast, colon or  
 CC lung cancer), neurological disease (e.g., Huntington disease or  
 CC spinocerebellar ataxia) or viral disease (e.g., AIDS). This sequence  
 CC represents a human apolipoprotein B (ApoB) antisense oligonucleotide that  
 CC can be used to control ApoB gene expression.  
 XX Sequence 19 BP; 5 A; 5 C; 4 G; 5 T; 0 U; 0 Other;  
 SQ

Query Match 56.2%; Score 11.8; DB 13; Length 19;  
 Best Local Similarity 86.7%; Pred. No. 3.7e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 7 TATCTGAAGAGCTCTG 21  
 Db 17 TTTCTGAAGAGCCTG 3

RESULT 39  
 ADR77702/C  
 ID ADR77702 standard; DNA; 19 BP.  
 XX  
 AC ADR77702;  
 DT 16-DEC-2004 (first entry)  
 XX Human apolipoprotein B (ApoB) oligonucleotide seqid 2187.  
 DE  
 KW antilipemic; cardiatic; vasotropic; antiarteriosclerotic; antidiabetic;  
 KW cytosatic; anticonvulsant; nootropic; muscular; anti-HIV;  
 KW RNA interference; RNA; antisense technology; lipid metabolism;  
 KW cholesterol imbalance; dyslipidaemia hypercholesterolaemia;  
 KW coronary artery disease; CAD; coronary heart disease; CHD;  
 KW atherosclerosis; hepatic glucose production;  
 KW glucose-metabolism-related disorder; diabetes; cancer; breast cancer;  
 KW colon cancer; lung cancer; neurological disease; Huntington disease;  
 KW spinocerebellar ataxia; viral disease; AIDS; apolipoprotein B; apoB; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2004080406-A2.  
 XX  
 PD 23-SEP-2004.  
 XX  
 PF 08-MAR-2004; 2004WO-US007070.  
 XX  
 PR 07-MAR-2003; 2003US-0452682P.  
 PR 12-MAR-2003; 2003US-0454265P.  
 PR 13-MAR-2003; 2003US-0454962P.  
 PR 14-APR-2003; 2003US-0455050P.  
 PR 17-APR-2003; 2003US-0463772P.  
 PR 25-APR-2003; 2003US-0465665P.  
 PR 25-APR-2003; 2003US-0465802P.  
 PR 09-MAY-2003; 2003US-0469612P.  
 PR 08-AUG-2003; 2003US-0493986P.  
 PR 11-AUG-2003; 2003US-0494597P.  
 PR 26-SEP-2003; 2003US-0506341P.  
 PR 09-OCT-2003; 2003US-0510246P.  
 PR 10-OCT-2003; 2003US-0510318P.  
 PR 07-NOV-2003; 2003US-0518453P.  
 XX  
 FA (ALNY-) ALNYLAM PHARM.  
 XX  
 PI Manoharan M, Bumcrot D;  
 XX  
 DR WPI; 2004-677362/66.  
 XX  
 XX Interference RNA agent useful for treating dyslipidemias, coronary artery  
 PT disease, diabetes, cancer or neurological disease, comprises sense  
 PT sequence and antisense sequence which has specific modifications.  
 XX

PS Example 5; SEQ ID NO 2187; 378bp; English.  
 XX The invention describes a RNA interference (iRNA) agent (I) comprising a  
 CC sense sequence and an antisense sequence, where the sense sequences have  
 CC one or more asymmetrical 2'-O alkyl modifications, the antisense  
 CC sequences have one or more asymmetrical phosphorothioate modifications  
 CC and the antisense sequence targets a human gene sequence. Also described  
 CC are a pharmaceutical preparation comprising (I); reducing (MI) apoB-100  
 CC levels or glucose-6-phosphatase levels in a subject; producing (I);  
 CC stabilising (I), involves selecting a sequence with activity and  
 CC introducing one or more asymmetrical modification in the sequence, where  
 CC the modification decreases nuclease sensitivity while not decreasing its  
 CC activity; a kit comprising (I) and instruction for its use; and a device  
 CC that can be dispense or administer a composition comprising (I). (I) is  
 CC useful for reducing apoB-100 levels or glucose-6-phosphatase levels. (MI)  
 CC is useful for reducing apoB-100 levels or glucose-6-phosphatase levels.  
 CC The subject is suffering from a disorder characterised by elevated or  
 CC otherwise unwanted expression of apoB-100, elevated or otherwise unwanted  
 CC levels of cholesterol, and/or dysregulation of lipid metabolism. The  
 CC disorder is chosen from the HDL/LDL cholesterol imbalance,  
 CC dyslipidaemias, hypercholesterolaemia, statin-resistant  
 CC hypercholesterolaemia, coronary artery disease (CAD), coronary heart  
 CC disease (CHD) and atherosclerosis. (I) is administered to a subject to  
 CC inhibit hepatic glucose production or for treating glucose-metabolism-  
 CC related disorder e.g. diabetes or type-2 diabetes. (I) is useful for  
 CC treating the diseases as mentioned above, cancer (e.g. breast, colon or  
 CC lung cancer), neurological disease (e.g., Huntington disease or  
 CC spinocerebellar ataxia) or viral disease (e.g., AIDS). This sequence  
 CC represents a human apolipoprotein B (ApoB) antisense oligonucleotide that  
 CC can be used to control ApoB gene expression.  
 XX Sequence 19 BP; 5 A; 5 C; 4 G; 5 T; 0 U; 0 Other;  
 SQ

Query Match 56.2%; Score 11.8; DB 13; Length 19;  
 Best Local Similarity 86.7%; Pred. No. 3.7e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 7 TATCTGAAGAGCTCTG 21  
 Db 17 TTTCTGAAGAGCCTG 3

RESULT 40  
 ADR78491/C  
 ID ADR78491 standard; DNA; 19 BP.  
 XX  
 AC ADR78491;  
 DT 16-DEC-2004 (first entry)  
 XX Human apolipoprotein B (ApoB) oligonucleotide seqid 2976.  
 DE  
 KW antilipemic; cardiatic; vasotropic; antiarteriosclerotic; antidiabetic;  
 KW cytosatic; anticonvulsant; nootropic; muscular; anti-HIV;  
 KW RNA interference; RNA; antisense technology; lipid metabolism;  
 KW cholesterol imbalance; dyslipidaemia hypercholesterolaemia;  
 KW coronary artery disease; CAD; coronary heart disease; CHD;  
 KW atherosclerosis; hepatic glucose production;  
 KW glucose-metabolism-related disorder; diabetes; cancer; breast cancer;  
 KW colon cancer; lung cancer; neurological disease; Huntington disease;  
 KW spinocerebellar ataxia; viral disease; AIDS; apolipoprotein B; apoB; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2004080406-A2.  
 XX  
 PD 23-SEP-2004.  
 XX  
 PF 08-MAR-2004; 2004WO-US007070.  
 XX  
 PR 07-MAR-2003; 2003US-0452682P.  
 PR 12-MAR-2003; 2003US-0454265P.  
 PR 13-MAR-2003; 2003US-0454962P.  
 PR 14-APR-2003; 2003US-0455050P.  
 PR 17-APR-2003; 2003US-0463772P.  
 PR 25-APR-2003; 2003US-0465665P.  
 PR 25-APR-2003; 2003US-0465802P.  
 PR 09-MAY-2003; 2003US-0469612P.  
 PR 08-AUG-2003; 2003US-0493986P.  
 PR 11-AUG-2003; 2003US-0494597P.  
 PR 26-SEP-2003; 2003US-0506341P.  
 PR 09-OCT-2003; 2003US-0510246P.  
 PR 10-OCT-2003; 2003US-0510318P.  
 PR 07-NOV-2003; 2003US-0518453P.  
 XX  
 FA (ALNY-) ALNYLAM PHARM.  
 XX  
 PI Manoharan M, Bumcrot D;  
 XX  
 DR WPI; 2004-677362/66.  
 XX  
 XX Interference RNA agent useful for treating dyslipidemias, coronary artery  
 PT disease, diabetes, cancer or neurological disease, comprises sense  
 PT sequence and antisense sequence which has specific modifications.  
 XX

PR 13-MAR-2003; 2003US-0455050P.  
PR 14-APR-2003; 2003US-0462894P.  
PR 17-APR-2003; 2003US-0463772P.  
PR 25-APR-2003; 2003US-0465665P.  
PR 25-APR-2003; 2003US-0465802P.  
PR 09-MAY-2003; 2003US-0469612P.  
PR 08-AUG-2003; 2003US-0493986P.  
PR 11-AUG-2003; 2003US-0494597P.  
PR 26-SEP-2003; 2003US-0506341P.  
PR 09-OCT-2003; 2003US-0510246P.  
PR 10-OCT-2003; 2003US-0510318P.  
PR 07-NOV-2003; 2003US-0518453P.  
XX (ALNY-) ALNYLAM PHARM.  
XX  
XX Manoharan M, Bumcrot D;  
XX  
XX WPI; 2004-677362/66.  
XX  
XX Interference RNA agent useful for treating dyslipidemias, coronary artery  
PT disease, diabetes, cancer or neurological disease, comprises sense  
PT sequence and antisense sequence which has specific modifications.  
XX  
XX Example 5; SEQ ID NO 2976; 378bp; English.  
XX  
XX The invention describes a RNA interference (irna) agent (I) comprising a  
CC sense sequence and an antisense sequence, where the sense sequences have  
CC one or more asymmetrical 2'-O alkyl modifications, the antisense  
CC sequences have one or more asymmetrical phosphorothioate modifications  
CC and the antisense sequence targets a human gene sequence. Also described  
CC are: a pharmaceutical preparation comprising (I); reducing (M1) apoB-100  
CC levels or glucose-6-phosphatase levels in a subject; producing (I);  
CC stabilising (I), involves selecting a sequence with activity and  
CC introducing one or more asymmetrical modification in the sequence, where  
CC the modification decreases nuclease sensitivity while not decreasing its  
CC activity; a kit comprising (I) and instruction for its use; and a device  
CC that can be dispense or administer a composition comprising (I). (I) is  
CC useful for reducing apoB-100 levels or glucose-6-phosphatase levels. (M1)  
CC is useful for reducing apoB-100 levels or glucose-6-phosphatase levels.  
CC The subject is suffering from a disorder characterised by elevated or  
CC otherwise unwanted expression of apoB-100, elevated or otherwise unwanted  
CC levels of cholesterol, and/or dysregulation of lipid metabolism. The  
CC disorder is chosen from the HDL/LDL cholesterol imbalance,  
CC dyslipidaemias, hypercholesterolaemia, statin-resistant  
CC hypercholesterolaemia, coronary artery disease (CAD), coronary heart  
CC disease (CHD) and atherosclerosis. (I) is administered to a subject to  
CC inhibit hepatic glucose production or for treating glucose-metabolism-  
CC related disorder e.g. diabetes or type-2 diabetes. (I) is useful for  
CC treating the diseases as mentioned above, cancer (e.g. breast, colon or  
CC lung cancer), neurological disease (e.g., Huntington disease or  
CC spinocerebellar ataxia) or viral disease (e.g., AIDS). This sequence  
CC represents a human apolipoprotein B (ApoB) antisense oligonucleotide that  
CC can be used to control ApoB gene expression.  
XX  
XX Sequence 19 BP; 5 A; 5 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 56.2%; Score 11.8; DB 13; Length 19;  
Best Local Similarity 86.7%; Pred. No. 3.7e+04;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
Oy 7 TATCTGAAGAGTCTG 21  
| | | | | | | | | | | | | | | | | | | | |  
Db 17 TTTCTGAAGAGCTG 3

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Title: US-09-743-825-8

Perfect score: 21

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Scoring table: IDENTITY NUC

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Gapop 10.0 , Gapext 1.0

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Maximum Match 100%  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SIMMARTES

Result No.	Score	Query Match	Length	DB	ID	Description
1	13	61.9	20	3	US-08-842-079-3	Sequence 3, Appli
2	13	61.9	20	3	US-09-638-857-3	Sequence 3, Appli
C 3	12.8	61.0	17	4	US-08-985-162-448	Sequence 448, App
	12.8	61.0	17	4	US-09-401-063-448	Sequence 448, App
C 4	12.8	61.0	20	2	US-08-450-905B-134	Sequence 134, App
C 5	12.8	61.0	20	3	US-07-982-759F-134	Sequence 134, App
C 6	12.2	58.1	17	3	US-08-985-163-449	Sequence 449, App
C 7	12.2	58.1	17	4	US-09-401-063-449	Sequence 449, App
C 8	12.2	58.1	17	3	US-08-717-291-8	Sequence 8, Appli
C 9	12.2	58.1	20	2	US-08-728-603-8	Sequence 8, Appli
10	12.2	58.1	20	3	US-09-433-699-73	Sequence 73, Appli
C 11	12	57.1	20	3	US-09-371-772B-5737	Sequence 5737, Ap
C 12	11.8	56.2	16	4	US-07-852-260-4	Sequence 4, Appli
C 13	11.8	56.2	17	1	US-07-936-421-18	Sequence 18, Appli
C 14	11.8	56.2	17	1	US-07-936-421-18	Sequence 18, Appli
C 15	11.8	56.2	17	2	US-08-461-503-4	Sequence 4, Appli
C 16	11.8	56.2	17	3	US-08-985-162-447	Sequence 447, App
C 17	11.8	56.2	17	3	US-08-465-250-4	Sequence 4, Appli
C 18	11.8	56.2	17	4	US-09-371-772B-4438	Sequence 4438, Ap
C 19	11.8	56.2	17	4	US-09-401-063-447	Sequence 447, App
C 20	11.8	56.2	20	3	US-09-488-857B-38	Sequence 38, Appli
C 21	11.8	56.2	20	4	US-09-198-452A-1366	Sequence 1366, Ap
C 22	11.8	56.2	21	4	US-09-478-189-118	Sequence 118, App
C 23	11.6	55.2	20	3	US-09-280-805-129	Sequence 129, App
C 24	11.6	55.2	20	3	US-09-517-467B-30	Sequence 30, Appli
C 25	11.6	55.2	20	4	US-09-198-452A-2767	Sequence 2767, Ap
C 26	11.6	55.2	20	4	US-09-657-289A-12	Sequence 12, Appli
C 27	11.6	55.2	21	4	US-09-657-472-1916	Sequence 1916, Ap

## ALIGNMENTS

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; Patent No. 6133434  
; GENERAL INFORMATION:  
; APPLICANT: BUELL, GARY N.  
; APPLICANT: SURPRENANT, ANNMARIE  
; APPLICANT: KAWASHIMA, ERIC  
; TITLE OF INVENTION: A PURINERGIC RECEPTOR  
; FILE REFERENCE: 1430-160  
; CURRENT APPLICATION NUMBER: US/08/842,079  
; NUMBER OF SEQ ID NOS: 20  
; CURRENT FILING DATE: 1997-04-28  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:Synthetic  
US-08-842-079-3

Query Match 61.9%; Score 13; DB 3; Length 20;  
Best Local Similarity 100.0%; Pred. No. 2.9e+03;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GGCCTATCTGAAG 15  
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Db 1 GGCCTATCTGAAG 13

RESULT 2  
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; Sequence 3, Application US/09638857  
; Patent No. 6509163  
; GENERAL INFORMATION:  
; APPLICANT: BUELL, GARY N.  
; APPLICANT: SURPRENANT, ANNMARIE  
; APPLICANT: KAWASHIMA, ERIC  
; TITLE OF INVENTION: A PURINERGIC RECEPTOR  
; FILE REFERENCE: 1430-160  
; CURRENT APPLICATION NUMBER: US/09/638,857  
; CURRENT FILING DATE: 2000-08-15  
; PRIOR APPLICATION NUMBER: 08/842,079  
; PRIOR FILING DATE: 1997-04-28  
; NUMBER OF SEQ ID NOS: 20  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:Synthetic  
US-09-638-857-3

Query Match 61.9%; Score 13; DB 4; Length 20;  
Best Local Similarity 100.0%; Pred. No. 2.9e+03;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GGCCTATCTGAAG 15  
|||  
Db 1 GGCCTATCTGAAG 13

RESULT 3  
US-08-985-162-448/c  
; Sequence 448, Application US/08985162  
; Patent No. 6057156

; GENERAL INFORMATION:  
; APPLICANT: Akhtar, Saghir  
; APPLICANT: Fell, Patricia  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: ENZYMAIC NUCLEIC ACID TREATMENT  
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
; TITLE OF INVENTION: FACTOR RECEPTORS  
; NUMBER OF SEQUENCES: 1877  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: FastSeq for Windows 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/985,162  
; FILING DATE: 04 December 1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/036,476  
; FILING DATE: 31 January 1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 230/107  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 448:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-08-985-162-448  
  
Query Match 61.0%; Score 12.8; DB 3; Length 17;  
Best Local Similarity 87.5%; Pred. No. 3.6e+03;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
Qy 6 GTATCTGAAGTCTG 21  
|||  
Db 16 GTATCGAAGAGTCTG 1  
  
RESULT 4  
US-09-401-063-448/c  
; Sequence 448, Application US/09401063  
; Patent No. 6623962  
; GENERAL INFORMATION:  
; APPLICANT: Akhtar, Saghir  
; APPLICANT: Fell, Patricia  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: ENZYMAIC NUCLEIC ACID TREATMENT  
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
; TITLE OF INVENTION: FACTOR RECEPTORS  
; NUMBER OF SEQUENCES: 1877  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Los Angeles

```
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/401,063
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/985,162
; FILING DATE: 04 December 1997
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 448:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-401-063-448

Query Match 61.0%; Score 12.8; DB 4; Length 17;
Best Local Similarity 87.5%; Pred. No. 3.6e+03;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 6 GTATCTGAAGAGTCTG 21
Db 16 GTATCGAAGAGTCTG 1

RESULT 5
US-08-450-905B-134/c
; Sequence 134, Application US/08450905B
; Patent No. 5856301
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Stem Cell Inhibiting Proteins
; NUMBER OF SEQUENCES: 178
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HALE and DORR
; STREET: 60 State Street
; CITY: Boston
; STATE: MA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/450,905B
; FILING DATE: 26-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/982,759
; FILING DATE: 08-MAR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9127319.3
; FILING DATE: 23-DEC-1991
; INFORMATION FOR SEQ ID NO: 449:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
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; FILING DATE: 14-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: BAKER, HOLLIE L.
; REGISTRATION NUMBER: 31,321
; REFERENCE/DOCKET NUMBER: 102.378.120DV-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-526-6110
; TELEFAX: 617-526-5000
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..20
; OTHER INFORMATION: /product= "BB9513 oligomer"
; US-08-450-905B-134

Query Match 61.0%; Score 12.8; DB 2; Length 20;
Best Local Similarity 87.5%; Pred. No. 3.6e+03;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CTGGCGTATCTGAAGA 16
Db 17 CTGACGCATCTGAAGA 2

RESULT 6
US-07-982-759F-134/c
; Sequence 134, Application US/07982759F
; Patent No. 6057123
; GENERAL INFORMATION:
; APPLICANT: CRAIG, Stewart
; APPLICANT: GEORGE, Michael
; APPLICANT: EDWARDS, Richard Mark
; APPLICANT: CZAPLEWSKI, Lloyd George
; APPLICANT: GILBERT, Richard
; TITLE OF INVENTION: Stem Cell Inhibiting Proteins
; NUMBER OF SEQUENCES: 178
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HALE and DORR LLP
; STREET: 60 State Street
; CITY: Boston
; STATE: MA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/982,759F
; FILING DATE: 08-MAR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9127319.3
; FILING DATE: 23-DEC-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9221587.0
; FILING DATE: 14-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: BAKER, HOLLIE L.
; REGISTRATION NUMBER: 31,321
; REFERENCE/DOCKET NUMBER: 102378.120
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-526-6000
; TELEFAX: 617-526-5000
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
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; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..20
; OTHER INFORMATION: /product= "BB9513 oligomer"
US-07-982-759F-134

Query Match      61.0%; Score 12.8; DB 3; Length 20;
Best Local Similarity 87.5%; Pred. No. 3.6e+03;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 CTGGCGTATCTGAAGA 16
      ||||| ||||| |||||
Db      17 CTGACGCATCTGAAGA 2

RESULT 7
US-08-985-162-449/c
; Sequence 449, Application US/08985162
; Patent No. 6057156
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; TITLE OF INVENTION: FACTOR RECEPTORS
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq for Windows 2.0
; CURRENT APPLICATION DATA:
; FILING DATE: 04 December 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/985,162
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 449:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-985-162-449

Query Match      58.1%; Score 12.2; DB 3; Length 17;
Best Local Similarity 82.4%; Pred. No. 7.2e+03;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      4 CGGTATCTGAAGAGTCT 20
      ||||| ||||| |||||
Db      17 GCGTATCGAAGAGTCT 1

RESULT 9
US-08-717-291-8
; Sequence 8, Application US/08717291
; Patent No. 5908773
; GENERAL INFORMATION:
; APPLICANT: Cesarman, Ethel
; APPLICANT: Arvanitakis, Leandros
; APPLICANT: Knowles, Daniel M.
```

```
Db      17 GCGTATCGAAGAGTCT 1
      ||||| ||||| |||||

RESULT 8
US-09-401-063-449/c
; Sequence 449, Application US/09401063
; Patent No. 6623962
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; TITLE OF INVENTION: FACTOR RECEPTORS
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/401,063
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/985,162
; FILING DATE: 04 December 1997
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 449:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-401-063-449

Query Match      58.1%; Score 12.2; DB 4; Length 17;
Best Local Similarity 82.4%; Pred. No. 7.2e+03;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      4 CGGTATCTGAAGAGTCT 20
      ||||| ||||| |||||
Db      17 GCGTATCGAAGAGTCT 1

RESULT 9
US-08-717-291-8
; Sequence 8, Application US/08717291
; Patent No. 5908773
; GENERAL INFORMATION:
; APPLICANT: Cesarman, Ethel
; APPLICANT: Arvanitakis, Leandros
; APPLICANT: Knowles, Daniel M.
```



```
; LENGTH: 16
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-5737

Query Match      56.2%; Score 11.8; DB 4; Length 16;
Best Local Similarity 73.3%; Pred. No. 1.1e+04;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      3 GGCCTATCTGAAGAG 17
Db      2 GACGUAACUGAAGAG 16

RESULT 13
US-07-852-260-4
; Sequence 4, Application US/07852260
; Patent No. 5525715
; GENERAL INFORMATION:
; APPLICANT: Racaniello, Vincent
; APPLICANT: Tatem, Joanne M.
; APPLICANT: Weeks-Levy, Carolyn L.
; TITLE OF INVENTION: METHODS FOR PRODUCING RNA VIRUSES FROM
; TITLE OF INVENTION: CDNA
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham
; STREET: 30 Rockefeller Plaza
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10112
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/852,260
; FILING DATE: 19920619
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 36607-B-PCT-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 977-9550
; TELEFAX: (212) 664-0525
; TELEX: 422523 COOP UI
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-07-852-260-4

Query Match      56.2%; Score 11.8; DB 1; Length 17;
Best Local Similarity 86.7%; Pred. No. 1.1e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      3 GGCCTATCTGAAGAG 17
Db      1 GGCCTATCTGACAG 15

RESULT 14
US-07-936-421-18
; Sequence 18, Application US/07936421
; Patent No. 5750390
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; GENERAL INFORMATION:
; APPLICANT: James D. Thompson
; APPLICANT: Kenneth G. Draper
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: TREATMENT OF DISEASES CAUSED
; TITLE OF INVENTION: BY EXPRESSION OF THE BCL-2
; TITLE OF INVENTION: GENE
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 611 West Sixth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/936,421
; FILING DATE: 19920826
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 197/243
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-07-936-421-18

Query Match      56.2%; Score 11.8; DB 1; Length 17;
Best Local Similarity 53.3%; Pred. No. 1.1e+04;
Matches 8; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy      6 GTATCTGAAGAGTCT 20
Db      3 GUCUCUGAAGACUCU 17

RESULT 15
US-08-461-503-4
; Sequence 4, Application US/08461503
; Patent No. 5834302
; GENERAL INFORMATION:
; APPLICANT: Racaniello, Vincent
; APPLICANT: Tatem, Joanne M.
; APPLICANT: Weeks-Levy, Carolyn L.
; TITLE OF INVENTION: METHODS FOR PRODUCING RNA VIRUSES
; TITLE OF INVENTION: FROM CDNA
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10112
; COMPUTER READABLE FORM:
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MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA: US/08/461,503  
 FILING DATE: 5-JUN-1995  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: White, John P.  
 REGISTRATION NUMBER: 28,678  
 REFERENCE/DOCKET NUMBER: 36607-D-PCT-US  
 TELEPHONE: (212) 278-0400  
 TELEX: 422523 COOP UI  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 17 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 US-08-461-503-4

Query Match 56.2%; Score 11.8; DB 2; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 1.1e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GCGTATCTGAAGAG 17  
 Db 1 GCGTATCTGAAGAG 15

RESULT 16  
 US-08-985-162-447/c  
 Sequence 447, Application US/08985162  
 Patent No. 6057156  
 GENERAL INFORMATION:  
 APPLICANT: Akhtar, Saghir  
 APPLICANT: Fell, Patricia  
 APPLICANT: McSwiggen, James  
 TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT  
 TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
 TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
 TITLE OF INVENTION: FACTOR RECEPTORS  
 NUMBER OF SEQUENCES: 1877  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Lyon & Lyon  
 STREET: 633 West Fifth Street  
 STREET: Suite 4700  
 CITY: Los Angeles  
 STATE: California  
 COUNTRY: U.S.A.  
 ZIP: 90071-2066  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
 MEDIUM TYPE: storage  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: IBM P.C. DOS 5.0  
 SOFTWARE: FastSeq for Windows 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/985,162  
 FILING DATE: 04 December 1997  
 CLASSIFICATION: 514  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 60/036,476  
 FILING DATE: 31 January 1997  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Warburg, Richard J.  
 REGISTRATION NUMBER: 32,327

REFERENCE/DOCKET NUMBER: 230/107  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (213) 489-1600  
 TELEX: (213) 955-0440  
 TELEEX: 67-3510  
 INFORMATION FOR SEQ ID NO: 447:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 17 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 US-08-985-162-447

Query Match 56.2%; Score 11.8; DB 3; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 1.1e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 7 TATCTGAAGAGTCTG 21  
 Db 17 TATCGAAGAGTCTG 3

RESULT 17  
 US-08-465-250-4  
 Sequence 4, Application US/08465250  
 Patent No. 6136570  
 GENERAL INFORMATION:  
 APPLICANT: Racaniello, Vincent  
 APPLICANT: Tatem, Joanne M.  
 APPLICANT: Weeks-Levy, Carolyn L.  
 TITLE OF INVENTION: METHODS FOR PRODUCING RNA VIRUSES FROM  
 TITLE OF INVENTION: CDNA  
 NUMBER OF SEQUENCES: 9  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Cooper & Dunham LLP  
 STREET: 1185 Avenue of the Americas  
 CITY: New York  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 10036  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release 1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/465,250  
 FILING DATE: 6-JUN-1995  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: White, John P.  
 REGISTRATION NUMBER: 28,678  
 REFERENCE/DOCKET NUMBER: 36607-E-PCT-US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 278-0400  
 TELEX: (212) 391-0525  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 17 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 US-08-465-250-4

Query Match 56.2%; Score 11.8; DB 3; Length 17;  
 Best Local Similarity 86.7%; Pred. No. 1.1e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GCGTATCTGAAGAG 17

```
Db      1 GGCCTATCTGACAAG 15
|||||
RESULT 18
US-09-371-772B-4438
; Sequence 4438, Application US/09371772B
; Patent No. 6566127
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Pavco, Pam
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; APPLICANT: Escobedo, Jaime
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION: Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE: MEHB00,876-J (237/198)
; CURRENT APPLICATION NUMBER: US/09/371,772B
; CURRENT FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: US 60/005,974
; PRIOR FILING DATE: 1995-10-26
; PRIOR APPLICATION NUMBER: US 08/584,040
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 14225
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4438
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-371-772B-4438

Query Match      56.2%; Score 11.8; DB 4; Length 17;
Best Local Similarity 73.3%; Pred. No. 1.1e+04;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      3 GGCCTATCTGGAAG 17
|||||
Db      1 GACGUACUGNAGAG 15
|||||
RESULT 19
US-09-401-063-447/c
; Sequence 447, Application US/09401063
; Patent No. 6623962
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; TITLE OF INVENTION: FACTOR RECEPTORS
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/401,063
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION NUMBER: 08/985,162
```

```
; FILING DATE: 04 December 1997
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 447:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-401-063-447

Query Match      56.2%; Score 11.8; DB 4; Length 17;
Best Local Similarity 86.7%; Pred. No. 1.1e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      7 TATCTGAAGAGTCTG 21
|||||
Db      17 TATCGAAAGAGTCTG 3
|||||
RESULT 20
US-09-488-857B-38/c
; Sequence 38, Application US/09488857B
; Patent No. 6255110
; GENERAL INFORMATION:
; APPLICANT: Lex M. Cowser
; APPLICANT: Jacqueline Wyatt
; TITLE OF INVENTION: ANTISENSE MODULATION OF ARA70 EXPRESSION
; FILE REFERENCE: RTS-0117
; CURRENT APPLICATION NUMBER: US/09/488,857B
; CURRENT FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 90
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-488-857B-38

Query Match      56.2%; Score 11.8; DB 3; Length 20;
Best Local Similarity 86.7%; Pred. No. 1.2e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 CTGGCGTATCTGAAG 15
|||||
Db      16 CTGGCCAATCTGAAG 2
|||||
RESULT 21
US-09-198-452A-1366
; Sequence 1366, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Grifflais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 1366
; LENGTH: 20
; TYPE: DNA
```



```
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-1366

Query Match          56.2%; Score 11.8; DB 4; Length 20;
Best Local Similarity 86.7%; Pred. No. 1.2e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 GCGTATCTCGAAGACT 18
    ||| ||| ||| ||| |||
Db 1 GCGGATCTGAGGACT 15

RESULT 22
US-09-478-189-118/c
; Sequence 118, Application US/09478189
; Patent No. 6534293
; GENERAL INFORMATION:
; APPLICANT: Barany, Francis
; APPLICANT: Liu, Jianzhao
; APPLICANT: Kirk, Brian W.
; APPLICANT: Zirvi, Monib
; APPLICANT: Gerry, No. 6534293man P.
; APPLICANT: Pary, Philip B.
; TITLE OF INVENTION: ACCELERATING IDENTIFICATION OF SINGLE NUCLEOTIDE
; TITLE OF INVENTION: POLYMORPHISMS AND ALIGNMENT OF CLONES IN GENOMIC
; TITLE OF INVENTION: SEQUENCING
; FILE REFERENCE: 19603/2621
; CURRENT APPLICATION NUMBER: US/09/478,189
; CURRENT FILING DATE: 2000-01-05
; PRIOR APPLICATION NUMBER: 60/114,881
; PRIOR FILING DATE: 1999-01-06
; NUMBER OF SEQ ID NOS: 181
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 118
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: probe/primer
US-09-478-189-118

Query Match          56.2%; Score 11.8; DB 4; Length 21;
Best Local Similarity 86.7%; Pred. No. 1.2e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CTGGGTATCTGAAG 15
    ||| ||| ||| ||| |||
Db 17 CTGGGTGTCCTGAAG 3

RESULT 23
US-09-280-805-129
; Sequence 129, Application US/09280805
; Patent No. 6184212
; GENERAL INFORMATION:
; APPLICANT: Loren J. Miraglia, Pamela Nero, Mark J.
; APPLICANT: Graham, Brett P. Monia
; TITLE OF INVENTION: ANTISENSE MODULATION OF HUMAN MDM2
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 271
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Law Offices of Jane Massey Licata
; STREET: 66 East Main Street
; CITY: Marlton
; STATE: NJ
; COUNTRY: U.S.A.
; ZIP: 08053
; COMPUTER READABLE FORM:
; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE
; COMPUTER: IBM PC
; OPERATING SYSTEM: WINDOWS 95
; SOFTWARE: WORDPERFECT 6.0
; CURRENT APPLICATION DATA:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
```

```
; APPLICATION NUMBER: US/09/280,805
; FILING DATE: herewith
; CLASSIFICATION:
; PRIOR APPLICATION NUMBER: 09/048,810
; FILING DATE: March 26, 1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Licata, Jane Massey
; REGISTRATION NUMBER: 32,257
; REFERENCE/DOCKET NUMBER: ISPH-0346
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-810-1515
; TELEFAX: 609-810-1454
; INFORMATION FOR SEQ ID NO: 129:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; ANTI-SENSE: Yes
US-09-280-805-129

Query Match          55.2%; Score 11.6; DB 3; Length 20;
Best Local Similarity 77.8%; Pred. No. 1.5e+04;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 2 TGGCGTATCTGAAGATC 19
    ||| ||| ||| ||| |||
Db 1 TGGCGTCCCTGTAGATTC 18

RESULT 24
US-09-517-467B-30
; Sequence 30, Application US/09517467B
; Patent No. 6451602
; GENERAL INFORMATION:
; APPLICANT: Ian Popoff
; APPLICANT: Lex M. Cowsett
; TITLE OF INVENTION: ANTISENSE MODULATION OF PARP EXPRESSION
; FILE REFERENCE: RPS-0150
; CURRENT APPLICATION NUMBER: US/09/517,467B
; CURRENT FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: 09/517,467
; PRIOR FILING DATE: 2000-03-02
; NUMBER OF SEQ ID NOS: 345
; SEQ ID NO 30
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-517-467B-30

Query Match          55.2%; Score 11.6; DB 3; Length 20;
Best Local Similarity 77.8%; Pred. No. 1.5e+04;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 GCGTATCTCGAAGACTCTG 21
    ||| ||| ||| ||| |||
Db 1 GCTTATCCGAAGACTCCG 18

RESULT 25
US-09-198-452A-2767/c
; Sequence 2767, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
```

; CURRENT FILING DATE: 1998-11-24  
; NUMBER OF SEQ ID NOS: 6849  
; SEQ ID NO 2767  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Chlamydia pneumoniae  
US-09-198-452A-2767

Query Match 55.2%; Score 11.6; DB 4; Length 20;  
Best Local Similarity 77.8%; Pred. No. 1.5e+04;  
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 GCGTATCTCGAAGACTCTG 21  
||| ||||| |||||  
Db 20 GCTTCTCTGAACAGACTG 3

RESULT 26  
US-09-657-289A-12/c  
; Sequence 12, Application US/09657289A  
; Patent No. 6737245  
; GENERAL INFORMATION:  
; APPLICANT: Francis, Kevin P.  
; APPLICANT: Contag, Pamela R.  
; APPLICANT: Joh, Danny J.  
; TITLE OF INVENTION: LUCIFERASE EXPRESSION CASSETTES AND METHODS OF USE  
; FILE REFERENCE: 9400-0006  
; CURRENT APPLICATION NUMBER: US/09/657,289A  
; CURRENT FILING DATE: 2000-09-07  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 12  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: LUKA-REV  
US-09-657-289A-12

Query Match 55.2%; Score 11.6; DB 4; Length 20;  
Best Local Similarity 77.8%; Pred. No. 1.5e+04;  
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 4 GCGTATCTCGAAGACTCTG 21  
||| ||||| |||||  
Db 19 GCATCTCTGAGGAGTG 2

RESULT 27  
US-09-657-472-1916/c  
; Sequence 1916, Application US/09657472  
; Patent No. 6727063  
; GENERAL INFORMATION:  
; APPLICANT: Lander, Eric S.  
; APPLICANT: Cargill, Michele  
; APPLICANT: Ireland, James S.  
; APPLICANT: Bolk, Stacey  
; APPLICANT: Daley, George Q.  
; APPLICANT: McCarthy, Jeanette J.  
; TITLE OF INVENTION: SINGLE NUCLEOTIDE POLYMORPHISMS IN GENES  
; FILE REFERENCE: 2825-1027-001  
; CURRENT APPLICATION NUMBER: US/09/657,472  
; CURRENT FILING DATE: 2000-09-07  
; PRIOR APPLICATION NUMBER: US 60/153,357  
; PRIOR FILING DATE: 1999-09-10  
; PRIOR APPLICATION NUMBER: US 60/220,947  
; PRIOR FILING DATE: 2000-07-26  
; PRIOR APPLICATION NUMBER: US 60/225,724  
; PRIOR FILING DATE: 2000-08-16  
; NUMBER OF SEQ ID NOS: 2551  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1916  
; LENGTH: 21

; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-657-472-1916

Query Match 55.2%; Score 11.6; DB 4; Length 21;  
Best Local Similarity 91.7%; Pred. No. 1.5e+04;  
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 10 CTGAAGAGTCTG 21  
||||| |||||  
Db 16 CTGARAGACTG 5

RESULT 28  
US-09-422-978-6486/c  
; Sequence 6486, Application US/09422978  
; Patent No. 6537751  
; GENERAL INFORMATION:  
; APPLICANT: Cohen, Daniel  
; APPLICANT: Blumenfeld, Marta  
; APPLICANT: Chumakov, Ilya  
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...  
; FILE REFERENCE: GENSER.020CP1  
; CURRENT APPLICATION NUMBER: US/09/422,978  
; CURRENT FILING DATE: 1999-10-20  
; EARLIER APPLICATION NUMBER: US 09/298,850  
; EARLIER FILING DATE: 1999-04-21  
; EARLIER APPLICATION NUMBER: US 60/109,732  
; EARLIER FILING DATE: 1998-11-23  
; EARLIER APPLICATION NUMBER: US 60/082,614  
; EARLIER FILING DATE: 1998-04-21  
; NUMBER OF SEQ ID NOS: 11796  
; SEQ ID NO 6486  
; LENGTH: 19  
; TYPE: DNA  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; NAME/KEY: primer\_bind  
; LOCATION: 1..19  
; OTHER INFORMATION: upstream amplification primer 99-11786 for SEQ 2552,  
US-09-422-978-6486

Query Match 54.3%; Score 11.4; DB 4; Length 19;  
Best Local Similarity 92.3%; Pred. No. 1.9e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CTGGCTTATCTGA 13  
||||| |||||  
Db 17 CTGGCTTATCTGA 5

RESULT 29  
US-08-602-093-12/c  
; Sequence 12, Application US/08602093  
; Patent No. 5837535  
; GENERAL INFORMATION:  
; APPLICANT: Joseph, Rajiv  
; APPLICANT: Dou, Dexian  
; TITLE OF INVENTION: A NOVEL NEURONAL-NEONATAL GENE:  
; TITLE OF INVENTION: NEURONATIN  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Kohn & Associates  
; STREET: 30500 No. 5837535thwestern Hwy.  
; CITY: Farmington Hills  
; STATE: Michigan  
; COUNTRY: US  
; ZIP: 48334  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30

```

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/602.093
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Kohn, Kenneth I.
; REGISTRATION NUMBER: 30,995
; REFERENCE/DOCKET NUMBER: 1059.00015
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (810) 539-5050
; TELEFAX: (810) 539-5055
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-602-093-12

```

```

Query Match 54.3%; Score 11.4; DB 2; Length 20;
Best Local Similarity 92.3%; Pred. No. 1.9e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 6 GTATCTGAAGAGT 18
Db 19 GTACTGAAGAGT 7

```

```

RESULT 30
US-08-985-162-450/c
; Sequence 450, Application US/08985162
; Patent No. 6057156
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; TITLE OF INVENTION: FACTOR RECEPTORS
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; STATE: Los Angeles
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/985,162
; FILING DATE: 04 December 1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 450:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-09-401-063-450

```

```

Query Match 53.3%; Score 11.2; DB 4; Length 17;
Best Local Similarity 81.2%; Pred. No. 2.3e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

Qy 4 GCGTATCTGAAGAGTC 19
Db 16 GGGTATCGAAAGAGTC 1

```

```

; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-985-162-450

```

```

Query Match 53.3%; Score 11.2; DB 3; Length 17;
Best Local Similarity 81.2%; Pred. No. 2.3e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

Qy 4 GCGTATCTGAAGAGTC 19
Db 16 GGGTATCGAAAGAGTC 1

```

```

RESULT 31
US-09-401-063-450/c
; Sequence 450, Application US/09401063
; Patent No. 6623962
; GENERAL INFORMATION:
; APPLICANT: Akhtar, Saghir
; APPLICANT: Fell, Patricia
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
; TITLE OF INVENTION: FACTOR RECEPTORS
; NUMBER OF SEQUENCES: 1877
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; STATE: Los Angeles
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/401,063
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/985,162
; FILING DATE: 04 December 1997
; APPLICATION NUMBER: 60/036,476
; FILING DATE: 31 January 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 230/107
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 450:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-09-401-063-450

```

```

Query Match 53.3%; Score 11.2; DB 4; Length 17;
Best Local Similarity 81.2%; Pred. No. 2.3e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

Qy 4 GCGTATCTGAAGAGTC 19
Db 16 GGGTATCGAAAGAGTC 1

```

```

RESULT 32
US-09-422-978-5682
; Sequence 5682, Application US/09422978
; Patent No. 6537751
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET.020CP1
; CURRENT APPLICATION NUMBER: US/09/422,978
; CURRENT FILING DATE: 1999-10-20
; EARLIER APPLICATION NUMBER: US 09/298,850
; EARLIER FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 60/109,732
; EARLIER FILING DATE: 1998-11-23
; EARLIER APPLICATION NUMBER: US 60/082,614
; EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 5682
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..18
; OTHER INFORMATION: upstream amplification primer 99-6097 for SEQ 1748,
US-09-422-978-5682

Query Match      53.3%; Score 11.2; DB 4; Length 18;
Best Local Similarity 81.2%; Pred. No. 2.3e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      6 GTATCTGAAGAGTCTG 21
Db      3 GTCCCTGAAAGTCTG 18

RESULT 33
US-08-555-678-57
; Sequence 57, Application US/08555678
; Patent No. 5763174
; GENERAL INFORMATION:
; APPLICANT: Nishikura, Kazuko
; TITLE OF INVENTION: RNA Editing Enzyme and Methods
; TITLE OF INVENTION: of Use Thereof
; NUMBER OF SEQUENCES: 67
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr, P.O. Box 457
; CITY: Spring House
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/555,678
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/197,794
; FILING DATE: 17-FEB-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/280,443
; FILING DATE: 25-JUL-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/457,459

```

```

; FILING DATE: 01-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: WST49DUSA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9206
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 57:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "primer"
US-08-555-678-57

Query Match      53.3%; Score 11.2; DB 1; Length 19;
Best Local Similarity 81.2%; Pred. No. 2.4e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      6 GTATCTGAAGAGTCTG 21
Db      4 GTATCTGAGCTGTCTG 19

RESULT 34
US-09-422-978-4659/c
; Sequence 4659, Application US/09422978
; Patent No. 6537751
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET.020CP1
; CURRENT APPLICATION NUMBER: US/09/422,978
; CURRENT FILING DATE: 1999-10-20
; EARLIER APPLICATION NUMBER: US 09/298,850
; EARLIER FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 60/109,732
; EARLIER FILING DATE: 1998-11-23
; EARLIER APPLICATION NUMBER: US 60/082,614
; EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 4659
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..19
; OTHER INFORMATION: upstream amplification primer 99-16867 for SEQ 725,
US-09-422-978-4659

Query Match      53.3%; Score 11.2; DB 4; Length 19;
Best Local Similarity 81.2%; Pred. No. 2.4e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      1 CTGGCGTATCTCTGAAGA 16
Db      16 CTGGCATTGTCTGAAGA 1

RESULT 35
US-09-696-791-466/c
; Sequence 466, Application US/09696791
; Patent No. 6770633
; GENERAL INFORMATION:
; APPLICANT: Robbins, Joan M.
; APPLICANT: Tritz, Richard
; TITLE OF INVENTION: RIBOZYME THERAPY FOR THE TREATMENT OF PROLIFERATIVE

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; TITLE OF INVENTION: SKIN AND EYE DISEASES
; FILE REFERENCE: 480124.407
; CURRENT APPLICATION NUMBER: US/09/696,791
; CURRENT FILING DATE: 2000-10-25
; NUMBER OF SEQ ID NOS: 4523
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 466
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Cdk4 ribozyme binding site
; US-09-696-791-466

Query Match      53.3%; Score 11.2; DB 4; Length 19;
Best Local Similarity 81.2%; Pred. No. 2.4e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      6 GTATCTGAAGAGTCTG 21
      ||| ||| ||| ||| |||
Db     19 GTAGCTGTAGATTCTG 4

RESULT 36
US-09-696-791-467/c
; Sequence 467, Application US/09696791
; Patent No. 6770633
; GENERAL INFORMATION:
; APPLICANT: Robbins, Joan M.
; APPLICANT: Tritz, Richard
; TITLE OF INVENTION: RIBOZYME THERAPY FOR THE TREATMENT OF PROLIFERATIVE
; TITLE OF INVENTION: SKIN AND EYE DISEASES
; FILE REFERENCE: 480124.407
; CURRENT APPLICATION NUMBER: US/09/696,791
; CURRENT FILING DATE: 2000-10-25
; NUMBER OF SEQ ID NOS: 4523
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 467
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Cdk4 ribozyme binding site
; US-09-696-791-467

Query Match      53.3%; Score 11.2; DB 4; Length 19;
Best Local Similarity 81.2%; Pred. No. 2.4e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      6 GTATCTGAAGAGTCTG 21
      ||| ||| ||| ||| |||
Db     17 GTAGCTGTAGATTCTG 2

RESULT 37
US-09-488-671-22
; Sequence 22, Application US/09488671A
; Patent No. 6187545
; GENERAL INFORMATION:
; APPLICANT: Robert McKay
; APPLICANT: Madeline M. Butler
; APPLICANT: Jacqueline Wyatt
; APPLICANT: Lex M. Cowseert
; TITLE OF INVENTION: ANTISENSE MODULATION OF PEPCK-CYTOSOLIC EXPRESSION
; FILE REFERENCE: RTS-0123
; CURRENT APPLICATION NUMBER: US/09/488,671A
; CURRENT FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 177
; SEQ ID NO 22
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-09-488-671-22
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; OTHER INFORMATION: Antisense Oligonucleotide
; US-09-488-671-22

Query Match      53.3%; Score 11.2; DB 3; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.4e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      3 GGCCTATCTGAAGAGT 18
      ||| ||| ||| ||| |||
Db     1 GGCATTTCTGCAGAGT 16

RESULT 38
US-09-488-671-23
; Sequence 23, Application US/09488671A
; Patent No. 6187545
; GENERAL INFORMATION:
; APPLICANT: Robert McKay
; APPLICANT: Madeline M. Butler
; APPLICANT: Jacqueline Wyatt
; APPLICANT: Lex M. Cowseert
; TITLE OF INVENTION: ANTISENSE MODULATION OF PEPCK-CYTOSOLIC EXPRESSION
; FILE REFERENCE: RTS-0123
; CURRENT APPLICATION NUMBER: US/09/488,671A
; CURRENT FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 177
; SEQ ID NO 23
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-09-488-671-23

Query Match      53.3%; Score 11.2; DB 3; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.4e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      3 GGCCTATCTGAAGAGT 18
      ||| ||| ||| ||| |||
Db     3 GGCATTTCTGCAGAGT 18

RESULT 39
US-09-488-671-24
; Sequence 24, Application US/09488671A
; Patent No. 6187545
; GENERAL INFORMATION:
; APPLICANT: Robert McKay
; APPLICANT: Madeline M. Butler
; APPLICANT: Jacqueline Wyatt
; APPLICANT: Lex M. Cowseert
; TITLE OF INVENTION: ANTISENSE MODULATION OF PEPCK-CYTOSOLIC EXPRESSION
; FILE REFERENCE: RTS-0123
; CURRENT APPLICATION NUMBER: US/09/488,671A
; CURRENT FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 177
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
; US-09-488-671-24

Query Match      53.3%; Score 11.2; DB 3; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.4e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      3 GGCCTATCTGAAGAGT 18
      ||| ||| ||| ||| |||
Db     5 GGCATTTCTGCAGAGT 20
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RESULT 40
US-09-517-584A-86/c
; Sequence 86, Application US/09517584A
; Patent NO. 6187587
; GENERAL INFORMATION:
; APPLICANT: Ian Popoff
; APPLICANT: Vickie L. Brown-Driver
; APPLICANT: Lex M. Cowser
; TITLE OF INVENTION: ANTISENSE MODULATION OF E2F TRANSCRIPTION FACTOR 1 EXPRESSION
; FILE REFERENCE: RTS-0121
; CURRENT APPLICATION NUMBER: US/09/517,584A
; CURRENT FILING DATE: 2000-03-22
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 86
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-517-584A-86

Query Match      53.3%; Score 11.2; DB 3; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.4e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      6 GTATCTGAAGAGTCTG 21
        |||||
Db      17 GTGTCTGAAGCGCCTG 2

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Search completed: August 12, 2005, 11:05:05  
Job time : 97 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 10:02:58 ; Search time 371 Seconds  
(without alignments)  
367.253 Million cell updates/sec

Title: US-09-743-825-8

Perfect score: 21

Sequence: 1 ctggcgatctgaagagctctg 21

Scoring table:

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Gapop 10.0 , Gapext 1.0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : Published Applications NA:\*

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- 2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq.\*
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- 11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq.\*
- 12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq.\*
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- 15: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq.\*
- 16: /cgn2\_6/ptodata/2/pubpna/US10D\_PUBCOMB.seq.\*
- 17: /cgn2\_6/ptodata/2/pubpna/US10E\_PUBCOMB.seq.\*
- 18: /cgn2\_6/ptodata/2/pubpna/US10F\_PUBCOMB.seq.\*
- 19: /cgn2\_6/ptodata/2/pubpna/US10G\_PUBCOMB.seq.\*
- 20: /cgn2\_6/ptodata/2/pubpna/US10H\_PUBCOMB.seq.\*
- 21: /cgn2\_6/ptodata/2/pubpna/US10I\_PUBCOMB.seq.\*
- 22: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq.\*
- 23: /cgn2\_6/ptodata/2/pubpna/US11A\_PUBCOMB.seq.\*
- 24: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq.\*
- 25: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*
- 26: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	13.8	65.7	20	19	US-10-619-739-1019 Sequence 1019, Ap
C 2	12.8	61.0	17	10	US-09-848-754A-448 Sequence 448, App
C 3	12.8	61.0	17	10	US-09-848-754A-1754 Sequence 1754, Ap
C 4	12.8	61.0	20	19	US-10-619-739-630 Sequence 630, App
C 5	12.4	59.0	20	17	US-10-190-366-64 Sequence 64, Appl
C 6	12.4	59.0	20	17	US-10-190-366-261 Sequence 261, App
C 7	12.4	59.0	21	21	US-10-847-918-10748 Sequence 10748, A

21	21	59.0	12.4	21	US-10-847-918-10750 Sequence 10750, A
21	21	59.0	12.4	21	US-10-847-918-10921 Sequence 10921, A
21	21	59.0	12.4	21	US-10-847-918-10922 Sequence 10922, A
21	21	59.0	12.4	21	US-10-847-918-10923 Sequence 10923, A
17	10	58.1	12.2	21	US-09-848-754A-449 Sequence 449, App
20	15	58.1	12.2	20	US-10-003-919-31 Sequence 31, Appl
20	17	58.1	12.2	20	US-10-167-034-78 Sequence 78, Appl
20	19	57.1	12	20	US-10-317-500-29 Sequence 29, Appl
20	19	57.1	12	20	US-10-317-500-184 Sequence 184, App
21	19	57.1	12	20	US-10-786-720-13349 Sequence 13349, A
21	20	57.1	12	20	US-10-751-736-46408 Sequence 46408, A
21	20	57.1	12	20	US-10-751-736-46777 Sequence 46777, A
16	18	56.2	11.8	20	US-10-138-674-5737 Sequence 5737, Ap
16	18	56.2	11.8	20	US-10-138-674-5737 Sequence 5737, Ap
16	19	56.2	11.8	20	US-09-848-754A-447 Sequence 447, App
17	10	56.2	11.8	20	US-09-780-164-577 Sequence 577, App
17	18	56.2	11.8	20	US-10-138-674-4438 Sequence 4438, Ap
17	18	56.2	11.8	20	US-10-138-674-7389 Sequence 7389, Ap
17	19	56.2	11.8	20	US-10-287-949A-4438 Sequence 4438, Ap
17	19	56.2	11.8	20	US-10-287-949A-7389 Sequence 7389, Ap
17	20	56.2	11.8	20	US-10-712-633-339 Sequence 339, App
17	20	56.2	11.8	20	US-10-712-633-339 Sequence 339, App
20	17	56.2	11.8	20	US-10-181-991-38 Sequence 24, Appl
20	17	56.2	11.8	20	US-10-174-319-24 Sequence 24, Appl
20	17	56.2	11.8	20	US-10-174-319-94 Sequence 94, Appl
20	17	56.2	11.8	20	US-10-289-762-1366 Sequence 1366, Ap
20	19	56.2	11.8	20	US-10-766-185-87 Sequence 87, Appl
20	19	56.2	11.8	20	US-10-719-370A-166 Sequence 166, App
21	16	56.2	11.8	20	US-10-198-235-118 Sequence 118, App
21	16	56.2	11.8	20	US-10-643-775-862 Sequence 862, App
21	9	55.2	11.6	20	US-09-752-383-129 Sequence 129, App
20	9	55.2	11.6	20	US-09-888-049-15 Sequence 15, Appl
20	13	55.2	11.6	20	US-10-094-146-4 Sequence 4, Appl
20	14	55.2	11.6	20	US-10-093-365-20 Sequence 20, Appl
20	17	55.2	11.6	20	US-10-005-344-129 Sequence 129, App
20	17	55.2	11.6	20	US-10-148-835-44 Sequence 44, Appl
20	17	55.2	11.6	20	US-10-289-762-2767 Sequence 2767, Ap
20	17	55.2	11.6	20	US-10-304-105-46 Sequence 46, Appl
20	21	55.2	11.6	20	US-10-316-232-15 Sequence 15, Appl
20	21	55.2	11.6	20	US-10-831-901A-1979 Sequence 1979, Ap
20	21	55.2	11.6	20	US-10-831-901A-1980 Sequence 1980, Ap
20	21	55.2	11.6	20	US-10-831-901A-1981 Sequence 1981, Ap
20	22	55.2	11.6	20	US-10-889-351-12 Sequence 12, Appl
20	22	55.2	11.6	20	US-10-792-280-349 Sequence 349, App
21	20	55.2	11.6	20	US-10-792-280-1372 Sequence 1372, Ap
21	20	55.2	11.6	20	US-10-751-736-22299 Sequence 22299, A
18	9	54.3	11.4	18	US-09-969-373-1686 Sequence 1686, Ap
18	9	54.3	11.4	18	US-09-969-373-1688 Sequence 1688, Ap
18	18	54.3	11.4	18	US-10-852-797-227 Sequence 227, App
18	17	54.3	11.4	17	US-10-349-143-6486 Sequence 6486, Ap
19	17	54.3	11.4	17	US-09-906-158-68 Sequence 68, Appl
20	15	54.3	11.4	20	US-10-002-623-930 Sequence 930, App
20	17	54.3	11.4	20	US-10-154-708-28 Sequence 28, Appl
20	17	54.3	11.4	20	US-10-388-263-517 Sequence 517, App
20	17	54.3	11.4	20	US-10-190-366-196 Sequence 196, App
20	17	54.3	11.4	20	US-10-190-366-389 Sequence 389, App
20	17	54.3	11.4	20	US-10-211-179-56 Sequence 56, Appl
20	19	54.3	11.4	20	US-10-648-593-321 Sequence 321, App
20	19	54.3	11.4	20	US-10-671-395-421 Sequence 421, App
20	19	54.3	11.4	20	US-10-671-395-477 Sequence 477, App
20	19	54.3	11.4	20	US-10-671-395-528 Sequence 528, App
20	19	54.3	11.4	20	US-10-671-395-552 Sequence 552, App
20	19	54.3	11.4	20	US-10-671-395-694 Sequence 694, App
20	19	54.3	11.4	20	US-10-671-395-844 Sequence 844, App
20	19	54.3	11.4	20	US-10-671-395-955 Sequence 955, App
20	19	54.3	11.4	20	US-10-671-395-1110 Sequence 1110, Ap
20	19	54.3	11.4	20	US-10-699-557-128 Sequence 128, App
21	19	54.3	11.4	21	US-10-786-720-20845 Sequence 20845, A
21	19	54.3	11.4	21	US-10-751-736-27936 Sequence 27936, A
21	20	54.3	11.4	21	US-10-751-736-27939 Sequence 27939, A
21	20	54.3	11.4	21	US-10-751-736-27938 Sequence 27938, A
21	20	54.3	11.4	21	US-10-751-736-29954 Sequence 29954, A
21	21	54.3	11.4	21	US-10-847-918-3289 Sequence 3289, Ap
21	21	54.3	11.4	21	US-10-847-918-3290 Sequence 3290, Ap

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c 81 11.4 54.3 21 21 US-10-847-918-3291 Sequence 3291, Ap
82 11.4 54.3 21 21 US-10-847-918-4033 Sequence 4033, Ap
83 11.4 54.3 21 21 US-10-847-918-4034 Sequence 4034, Ap
c 84 11.4 54.3 21 21 US-10-847-918-4035 Sequence 4035, Ap
85 11.4 54.3 21 21 US-10-847-918-5116 Sequence 5116, Ap
86 11.4 54.3 21 21 US-10-847-918-5117 Sequence 5117, Ap
c 87 11.4 54.3 21 21 US-10-847-918-5118 Sequence 5118, Ap
88 11.4 54.3 21 21 US-10-847-918-5260 Sequence 5260, Ap
89 11.4 54.3 21 21 US-10-847-918-5261 Sequence 5261, Ap
c 90 11.4 54.3 21 21 US-10-847-918-5262 Sequence 5262, Ap
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92 11.4 54.3 21 21 US-10-847-918-10749 Sequence 10749, A
c 93 11.4 54.3 21 21 US-10-847-918-10752 Sequence 10752, A
94 11.2 53.3 17 10 US-09-927-046-156 Sequence 156, App
95 11.2 53.3 17 10 US-09-927-046-157 Sequence 157, App
c 96 11.2 53.3 17 10 US-09-848-754A-450 Sequence 450, App
97 11.2 53.3 17 15 US-10-156-306-4879 Sequence 4879, Ap
98 11.2 53.3 18 17 US-10-349-143-5682 Sequence 5682, Ap
99 11.2 53.3 19 10 US-09-864-636A-1817 Sequence 1817, Ap
100 11.2 53.3 19 11 US-09-864-426A-1817 Sequence 1817, Ap

ALIGNMENTS

RESULT 1
US-10-619-739-1019/c
; Sequence 1019, Application US/10619739
; Publication No. US20040175719A1
; GENERAL INFORMATION:
; APPLICANT: Christians, Frederick C.
; TITLE OF INVENTION: Synthetic Tag Genes
; FILE REFERENCE: 3502.1
; CURRENT APPLICATION NUMBER: US/10/619,739
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: 60/395,530
; PRIOR FILING DATE: 2002-07-12
; NUMBER OF SEQ ID NOS: 2068
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1019
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-739-1019
Query Match 65.7%; Score 13.8; DB 19; Length 20;
Best Local Similarity 88.2%; Pred. No. 5.4e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CGTATCTGAAGAGTCTG 21
| | | | | | | | | | | | | | | | | | | |
Db 20 CATATCTGGAGAGTCTG 4

RESULT 2
US-09-848-754A-448/c
; Sequence 448, Application US/09848754A
; Publication No. US20030073207A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Growth Factor Receptors
; FILE REFERENCE: MBHB00-958-I (400/018)
; CURRENT APPLICATION NUMBER: US/09/848,754A
; CURRENT FILING DATE: 2001-05-03
; NUMBER OF SEQ ID NOS: 9645
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 448
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
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US-09-848-754A-448
Query Match 61.0%; Score 12.8; DB 10; Length 17;
Best Local Similarity 87.5%; Pred. No. 1.7e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 6 GTATCTGAAGAGTCTG 21
| | | | | | | | | | | | | | | | | | | |
Db 16 GTATCGAAGAGTCTG 1

RESULT 3
US-09-848-754A-1754/c
; Sequence 1754, Application US/09848754A
; Publication No. US20030073207A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Growth Factor Receptors
; FILE REFERENCE: MBHB00-958-I (400/018)
; CURRENT APPLICATION NUMBER: US/09/848,754A
; CURRENT FILING DATE: 2001-05-03
; NUMBER OF SEQ ID NOS: 9645
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1754
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-848-754A-1754
Query Match 61.0%; Score 12.8; DB 10; Length 17;
Best Local Similarity 87.5%; Pred. No. 1.7e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 6 GTATCTGAAGAGTCTG 21
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Db 17 GTATCGAAGAGTCTG 2

RESULT 4
US-10-619-739-630/c
; Sequence 630, Application US/10619739
; Publication No. US20040175719A1
; GENERAL INFORMATION:
; APPLICANT: Christians, Frederick C.
; TITLE OF INVENTION: Synthetic Tag Genes
; FILE REFERENCE: 3502.1
; CURRENT APPLICATION NUMBER: US/10/619,739
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: 60/395,530
; PRIOR FILING DATE: 2002-07-12
; NUMBER OF SEQ ID NOS: 2068
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 630
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-739-630
Query Match 61.0%; Score 12.8; DB 19; Length 20;
Best Local Similarity 87.5%; Pred. No. 1.7e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 GCGTATCTGAAGAGTCTG 19
| | | | | | | | | | | | | | | | | | | |
Db 17 GCGTATCTGCATAGTC 2

RESULT 5
US-10-190-366-64
; Sequence 64, Application US/10190366
```



```
; Publication No. US20040006031A1
; GENERAL INFORMATION:
; APPLICANT: Nicholas M. Dean
; APPLICANT: Susan M. Freier
; APPLICANT: Kenneth W. Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF HMW-COA REDUCTASE EXPRESSION
; FILE REFERENCE: PTS-0023
; CURRENT APPLICATION NUMBER: US/10/190,366
; CURRENT FILING DATE: 2002-07-02
; NUMBER OF SEQ ID NOS: 409
; SEQ ID NO 64
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-190-366-64

Query Match      59.0%; Score 12.4; DB 17; Length 20;
Best Local Similarity 92.9%; Pred. No. 2.8e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      8 ATCTGAAGAGTCTG 21
      ||||| |||||
Db      3 ATCTGAGGAGTCTG 16

RESULT 6
US-10-190-366-261/c
; Sequence 261, Application US/10190366
; Publication No. US20040006031A1
; GENERAL INFORMATION:
; APPLICANT: Nicholas M. Dean
; APPLICANT: Susan M. Freier
; TITLE OF INVENTION: ANTISENSE MODULATION OF HMW-COA REDUCTASE EXPRESSION
; FILE REFERENCE: PTS-0023
; CURRENT APPLICATION NUMBER: US/10/190,366
; CURRENT FILING DATE: 2002-07-02
; NUMBER OF SEQ ID NOS: 409
; SEQ ID NO 261
; LENGTH: 20
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
US-10-190-366-261

Query Match      59.0%; Score 12.4; DB 17; Length 20;
Best Local Similarity 92.9%; Pred. No. 2.8e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      8 ATCTGAAGAGTCTG 21
      ||||| |||||
Db      18 ATCTGAGGAGTCTG 5

RESULT 7
US-10-847-918-10748/c
; Sequence 10748, Application US/10847918
; Publication No. US20050119210A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Be, Xiaobing
; APPLICANT: Liu, Wei
; APPLICANT: Slonim, Donna
; APPLICANT: Howes, Steve
; TITLE OF INVENTION: Compositions and Methods for Diagnosing and Treating Cancers
; FILE REFERENCE: 031896-026000 (AM101264)
; CURRENT APPLICATION NUMBER: US/10/847,918
; CURRENT FILING DATE: 2004-05-19
; PRIOR APPLICATION NUMBER: US 60/471,729
; PRIOR FILING DATE: 2003-05-20
; NUMBER OF SEQ ID NOS: 14937
```

```
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10748
; LENGTH: 21
; TYPE: RNA
; ORGANISM: RNAi-sense strand
US-10-847-918-10748

Query Match      59.0%; Score 12.4; DB 21; Length 21;
Best Local Similarity 92.9%; Pred. No. 2.8e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      8 ATCTGAAGAGTCTG 21
      ||||| ||||| |||||
Db      20 ATCTGAAGAGTCTG 7

RESULT 8
US-10-847-918-10750/c
; Sequence 10750, Application US/10847918
; Publication No. US20050119210A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Be, Xiaobing
; APPLICANT: Liu, Wei
; APPLICANT: Slonim, Donna
; APPLICANT: Howes, Steve
; TITLE OF INVENTION: Compositions and Methods for Diagnosing and Treating Cancers
; FILE REFERENCE: 031896-026000 (AM101264)
; CURRENT APPLICATION NUMBER: US/10/847,918
; CURRENT FILING DATE: 2004-05-19
; PRIOR APPLICATION NUMBER: US 60/471,729
; PRIOR FILING DATE: 2003-05-20
; NUMBER OF SEQ ID NOS: 14937
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10750
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-847-918-10750

Query Match      59.0%; Score 12.4; DB 21; Length 21;
Best Local Similarity 92.9%; Pred. No. 2.8e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      8 ATCTGAAGAGTCTG 21
      ||||| ||||| |||||
Db      14 ATCTGAAGAGTCTG 1

RESULT 9
US-10-847-918-10921/c
; Sequence 10921, Application US/10847918
; Publication No. US20050119210A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Be, Xiaobing
; APPLICANT: Liu, Wei
; APPLICANT: Slonim, Donna
; APPLICANT: Howes, Steve
; TITLE OF INVENTION: Compositions and Methods for Diagnosing and Treating Cancers
; FILE REFERENCE: 031896-026000 (AM101264)
; CURRENT APPLICATION NUMBER: US/10/847,918
; CURRENT FILING DATE: 2004-05-19
; PRIOR APPLICATION NUMBER: US 60/471,729
; PRIOR FILING DATE: 2003-05-20
; NUMBER OF SEQ ID NOS: 14937
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10921
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-847-918-10921
```

```
Query Match          59.0%; Score 12.4; DB 21; Length 21;
Best Local Similarity 92.9%; Pred. No. 2.8e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      8 ATCTGAAGAGTCTG 21
Db      16 ATCTGAAGAGTCTG 3

RESULT 10
US-10-847-918-10922/c
; Sequence 10922, Application US/10847918
; Publication No. US20050119210A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Be, Xiaobing
; APPLICANT: Liu, Wei
; APPLICANT: Slonim, Donna
; APPLICANT: Howes, Steve
; TITLE OF INVENTION: Compositions and Methods for Diagnosing and Treating Cancers
; FILE REFERENCE: 031896-026000 (AM101264)
; CURRENT APPLICATION NUMBER: US/10/847,918
; CURRENT FILING DATE: 2004-05-19
; PRIOR APPLICATION NUMBER: US 60/471,729
; PRIOR FILING DATE: 2003-05-20
; NUMBER OF SEQ ID NOS: 14937
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10922
; LENGTH: 21
; TYPE: RNA
; ORGANISM: RNAi-sense strand
US-10-847-918-10922

Query Match          59.0%; Score 12.4; DB 21; Length 21;
Best Local Similarity 92.9%; Pred. No. 2.8e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      8 ATCTGAAGAGTCTG 21
Db      14 ATCTGAAGAGTCTG 1

RESULT 11
US-10-847-918-10923
; Sequence 10923, Application US/10847918
; Publication No. US20050119210A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Be, Xiaobing
; APPLICANT: Liu, Wei
; APPLICANT: Slonim, Donna
; APPLICANT: Howes, Steve
; TITLE OF INVENTION: Compositions and Methods for Diagnosing and Treating Cancers
; FILE REFERENCE: 031896-026000 (AM101264)
; CURRENT APPLICATION NUMBER: US/10/847,918
; CURRENT FILING DATE: 2004-05-19
; PRIOR APPLICATION NUMBER: US 60/471,729
; PRIOR FILING DATE: 2003-05-20
; NUMBER OF SEQ ID NOS: 14937
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10923
; LENGTH: 21
; TYPE: RNA
; ORGANISM: RNAi-antisense strand
US-10-847-918-10923

Query Match          59.0%; Score 12.4; DB 21; Length 21;
Best Local Similarity 64.3%; Pred. No. 2.8e+04;
Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy      8 ATCTGAAGAGTCTG 21
Db      6 AUCUGAGACUCUG 19
```

```
RESULT 12
US-09-848-754A-449/c
; Sequence 449, Application US/09848754A
; Publication No. US20030073207A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate
; FILE REFERENCE: Levels of Epidermal Growth Factor Receptors
; FILE REFERENCE: MBHB00-958-I (400/018)
; CURRENT APPLICATION NUMBER: US/09/848,754A
; CURRENT FILING DATE: 2001-05-03
; NUMBER OF SEQ ID NOS: 9645
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 449
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-848-754A-449

Query Match          58.1%; Score 12.2; DB 10; Length 17;
Best Local Similarity 82.4%; Pred. No. 3.5e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      4 GCGTATCTGAAGAGTCT 20
Db      17 GGGTAICGAAAGAGTCT 1

RESULT 13
US-10-003-919-31/c
; Sequence 31, Application US/10003919
; Publication No. US20030114401A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Susan M. Freier
; TITLE OF INVENTION: ANTISENSE MODULATION OF SHIP-1 EXPRESSION
; FILE REFERENCE: RFS-0256
; CURRENT APPLICATION NUMBER: US/10/003,919
; CURRENT FILING DATE: 2001-12-06
; NUMBER OF SEQ ID NOS: 87
; SEQ ID NO 31
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-003-919-31

Query Match          58.1%; Score 12.2; DB 15; Length 20;
Best Local Similarity 82.4%; Pred. No. 3.5e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      1 CTGGCGTATCTGAAGAG 17
Db      20 CTGGAGTCTCTGCAGAG 4

RESULT 14
US-10-167-034-78/c
; Sequence 78, Application US/10167034
; Publication No. US20030228690A1
; GENERAL INFORMATION:
; APPLICANT: Brenda F. Baker
; APPLICANT: Susan M. Freier
; APPLICANT: Kenneth W. Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF IL-1 RECEPTOR-ASSOCIATED KINASE-1 EXPRESS
; FILE REFERENCE: PFS-0003
; CURRENT APPLICATION NUMBER: US/10/167,034
; CURRENT FILING DATE: 2002-06-10
; NUMBER OF SEQ ID NOS: 142
; SEQ ID NO 78
```

Qy	7	TATCTGAAGAGT	18
Db	1	TATCTGAAGAGT	12

```
; TITLE OF INVENTION:  CANCERS
; FILE REFERENCE:  AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER:  US/10/751,736
; CURRENT FILING DATE:  2003-01-06
; PRIOR APPLICATION NUMBER:  US Provisional Application 60/438,000
; PRIOR FILING DATE:  2003-01-06
; NUMBER OF SEQ ID NOS:  54873
; SOFTWARE:  PatentIn version 3.2
; SEQ ID NO 46777
; LENGTH:  21
; TYPE:  DNA
; ORGANISM:  homo sapiens
US-10-751-736-46777

Query Match          57.1%; Score 12; DB 20; Length 21;
Best Local Similarity 75.0%; Pred. No. 4.4e+04;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy      2 TGGCGTATCTGAAGAGTCTG 21
Db      20 TGTCTCTCTGTATGAGGCTG 1

RESULT 20
US-10-138-674-5737
; Sequence 5737, Application US/10138674
; Publication No. US20040077565A1
; GENERAL INFORMATION:
; APPLICANT:  Ribozyme Pharmaceuticals, Inc.
; APPLICANT:  Pavco, Pam
; APPLICANT:  McSwiggen, Jim
; APPLICANT:  Stinchcomb, Dan
; APPLICANT:  Escobedo, Jaime
; TITLE OF INVENTION:  Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION:  Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE:  MEHB00-876-N (400/049)
; CURRENT APPLICATION NUMBER:  US/10/138,674
; CURRENT FILING DATE:  2002-05-03
; NUMBER OF SEQ ID NOS:  20822
; SOFTWARE:  PatentIn version 3.0
; SEQ ID NO 5737
; LENGTH:  16
; TYPE:  RNA
; ORGANISM:  Homo sapiens
US-10-138-674-5737

Query Match          56.2%; Score 11.8; DB 18; Length 16;
Best Local Similarity 73.3%; Pred. No. 5.5e+04;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      3 GCGGTATCTGAAGAG 17
Db      2 GACGUACUGAAGAG 16

RESULT 21
US-10-287-949A-5737
; Sequence 5737, Application US/10287949A
; Publication No. US20040102389A1
; GENERAL INFORMATION:
; APPLICANT:  Ribozyme Pharmaceuticals, Inc.
; APPLICANT:  Pavco, Pam
; APPLICANT:  McSwiggen, Jim
; APPLICANT:  Stinchcomb, Dan
; APPLICANT:  Escobedo, Jaime
; TITLE OF INVENTION:  Method and Reagent for the Treatment of Diseases or Conditions Re
; TITLE OF INVENTION:  Levels of Vascular Endothelial Growth Factor Receptor
; FILE REFERENCE:  MEHB00-876-N (400/049)
; CURRENT APPLICATION NUMBER:  US/10/287,949A
; CURRENT FILING DATE:  2003-04-11
; NUMBER OF SEQ ID NOS:  20822
; SOFTWARE:  PatentIn version 3.0
; SEQ ID NO 5737
```

```
; LENGTH:  16
; TYPE:  RNA
; ORGANISM:  Homo sapiens
US-10-287-949A-5737

Query Match          56.2%; Score 11.8; DB 19; Length 16;
Best Local Similarity 73.3%; Pred. No. 5.5e+04;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      3 GCGGTATCTGAAGAG 17
Db      2 GACGUACUGAAGAG 16

RESULT 22
US-09-848-754A-447/c
; Sequence 447, Application US/09848754A
; Publication No. US20030073207A1
; GENERAL INFORMATION:
; APPLICANT:  Ribozyme Pharmaceuticals, Inc.
; TITLE OF INVENTION:  Enzymatic Nucleic Acid Treatment of Diseases or Conditions Relate
; TITLE OF INVENTION:  Levels of Epidermal Growth Factor Receptors
; FILE REFERENCE:  MEHB00-958-1 (400/018)
; CURRENT APPLICATION NUMBER:  US/09/848,754A
; CURRENT FILING DATE:  2001-05-03
; NUMBER OF SEQ ID NOS:  9645
; SOFTWARE:  PatentIn version 3.0
; SEQ ID NO 447
; LENGTH:  17
; TYPE:  RNA
; ORGANISM:  Homo sapiens
US-09-848-754A-447

Query Match          56.2%; Score 11.8; DB 10; Length 17;
Best Local Similarity 86.7%; Pred. No. 5.5e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      7 TATCTGAAGAGTCTG 21
Db      17 TATCGAAAGAGTCTG 3

RESULT 23
US-09-780-164-577/c
; Sequence 577, Application US/09780164
; Publication No. US20030092646A1
; GENERAL INFORMATION:
; APPLICANT:  Ribozyme Pharmaceuticals, Inc.
; APPLICANT:  Blatt, Larry
; APPLICANT:  McSwiggen, Jim
; TITLE OF INVENTION:  Method and Reagent for the Inhibition of CD20
; FILE REFERENCE:  400/010
; CURRENT APPLICATION NUMBER:  US/09/780,164
; CURRENT FILING DATE:  2001-02-09
; PRIOR APPLICATION NUMBER:  60/185,516
; PRIOR FILING DATE:  2000-02-28
; NUMBER OF SEQ ID NOS:  2603
; SOFTWARE:  PatentIn version 3.0
; SEQ ID NO 577
; LENGTH:  17
; TYPE:  RNA
; ORGANISM:  Homo sapiens
US-09-780-164-577

Query Match          56.2%; Score 11.8; DB 10; Length 17;
Best Local Similarity 86.7%; Pred. No. 5.5e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      4 GCGTATCTGAAGAGT 18
Db      16 GCGTATGTGCAGAGT 2
```

## RESULT 24

US-10-138-674-4438  
; Sequence 4438, Application US/10138674  
; Publication No. US20040077565A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
; FILE REFERENCE: MBHB00-876-N (400/049)  
; CURRENT APPLICATION NUMBER: US/10/138,674  
; CURRENT FILING DATE: 2002-05-03  
; NUMBER OF SEQ ID NOS: 20822  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 4438  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-138-674-4438

Query Match 56.2%; Score 11.8; DB 18; Length 17;  
Best Local Similarity 73.3%; Pred. No. 5.5e+04;  
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 3 GCGGTATCTGAAGAG 17  
| | | | | | | | | | | | | | | | | | | |  
Db 1 GACGUACUGAAGAG 15

## RESULT 25

US-10-138-674-7389  
; Sequence 7389, Application US/10138674  
; Publication No. US20040077565A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
; FILE REFERENCE: MBHB00-876-N (400/049)  
; CURRENT APPLICATION NUMBER: US/10/138,674  
; CURRENT FILING DATE: 2002-05-03  
; NUMBER OF SEQ ID NOS: 20822  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 7389  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-138-674-7389

Query Match 56.2%; Score 11.8; DB 18; Length 17;  
Best Local Similarity 73.3%; Pred. No. 5.5e+04;  
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 3 GCGGTATCTGAAGAG 17  
| | | | | | | | | | | | | | | | | | | |  
Db 3 GACGUACUGAAGAG 17

## RESULT 26

US-10-287-949A-4438  
; Sequence 4438, Application US/10287949A  
; Publication No. US20040102389A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan

; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
; FILE REFERENCE: MBHB00-876-N (400/049)  
; CURRENT APPLICATION NUMBER: US/10/287,949A  
; CURRENT FILING DATE: 2003-04-11  
; NUMBER OF SEQ ID NOS: 20822  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 4438  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-287-949A-4438

Query Match 56.2%; Score 11.8; DB 19; Length 17;  
Best Local Similarity 73.3%; Pred. No. 5.5e+04;  
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 3 GCGGTATCTGAAGAG 17  
| | | | | | | | | | | | | | | | | | | |  
Db 1 GACGUACUGAAGAG 15

## RESULT 27

US-10-287-949A-7389  
; Sequence 7389, Application US/10287949A  
; Publication No. US20040102389A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pam  
; APPLICANT: McSwiggen, Jim  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Escobedo, Jaime  
; TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
; FILE REFERENCE: MBHB00-876-N (400/049)  
; CURRENT APPLICATION NUMBER: US/10/287,949A  
; CURRENT FILING DATE: 2003-04-11  
; NUMBER OF SEQ ID NOS: 20822  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 7389  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-10-287-949A-7389

Query Match 56.2%; Score 11.8; DB 19; Length 17;  
Best Local Similarity 73.3%; Pred. No. 5.5e+04;  
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 3 GCGGTATCTGAAGAG 17  
| | | | | | | | | | | | | | | | | | | |  
Db 3 GACGUACUGAAGAG 17

## RESULT 28

US-10-712-633-339  
; Sequence 339, Application US/10712633  
; Publication No. US20040220128A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Pavco, Pamela  
; APPLICANT: Sandberg, Jennifer  
; APPLICANT: Gordon, Gilad  
; APPLICANT: McSwiggen, James  
; APPLICANT: Stinchcomb, Dan  
; TITLE OF INVENTION: NUCLEIC ACID BASED MODULATION OF VASCULAR ENDOTHELIAL GROWTH FACT  
; FILE REFERENCE: MBHB02-325PCT (400/047)  
; CURRENT APPLICATION NUMBER: US/10/712,633  
; CURRENT FILING DATE: 2003-11-13  
; PRIOR APPLICATION NUMBER: US 60/005,974  
; PRIOR FILING DATE: 1995-10-26



Fri Aug 12 15:50:27 2005

GENERAL INFORMATION:  
 APPLICANT: Barany, Francis  
 APPLICANT: Liu, Jianzhao  
 APPLICANT: Kirk, Brian W.  
 APPLICANT: Zirvi, Monib  
 APPLICANT: Gerry, No. US20030190634Alman P.  
 APPLICANT: Paty, Philip B.  
 TITLE OF INVENTION: ACCELERATING IDENTIFICATION OF SINGLE NUCLEOTIDE  
 TITLE OF INVENTION: POLYMORPHISMS AND ALIGNMENT OF CLONES IN GENOMIC  
 TITLE OF INVENTION: SEQUENCING  
 FILE REFERENCE: 19603/2621  
 CURRENT APPLICATION NUMBER: US/10/198,235  
 CURRENT FILING DATE: 2002-07-17  
 PRIOR APPLICATION NUMBER: US/09/478,189  
 PRIOR FILING DATE: 2000-01-05  
 PRIOR APPLICATION NUMBER: 60/114,881  
 PRIOR FILING DATE: 1999-01-06  
 NUMBER OF SEQ ID NOS: 181  
 SOFTWARE: Patentin Ver. 2.1  
 SEQ ID NO 118  
 LENGTH: 21  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Description of Artificial Sequence: probe/primer  
 US-10-198-235-118

Query Match 56.2%; Score 11.8; DB 16; Length 21;  
 Best Local Similarity 86.7%; Pred. No. 5.6e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CTGGCGTATCTGAAG 15  
 |||||  
 Db 17 CTGGTGTCTGAAG 3

RESULT 36

US-10-643-775-862/c  
 Sequence 862, Application US/10643775  
 Publication No. US20050026156A1  
 GENERAL INFORMATION:  
 APPLICANT: Lie, Cysteine  
 APPLICANT: Slettan, Audun  
 APPLICANT: Hoyum, Morten  
 APPLICANT: Lingaas, Frode  
 TITLE OF INVENTION: Verification of Food Origin Based on  
 TITLE OF INVENTION: Nucleic Acid Pattern Recognition  
 FILE REFERENCE: 66849-019  
 CURRENT APPLICATION NUMBER: US/10/643,775  
 CURRENT FILING DATE: 2003-08-18  
 PRIOR APPLICATION NUMBER: US 60/404,200  
 PRIOR FILING DATE: 2002-08-16  
 NUMBER OF SEQ ID NOS: 1377  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 862  
 LENGTH: 21  
 TYPE: DNA  
 ORGANISM: Orsochromis niloticus  
 US-10-643-775-862

Query Match 56.2%; Score 11.8; DB 21; Length 21;  
 Best Local Similarity 86.7%; Pred. No. 5.6e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 GCGGTATCTGAAG 17  
 |||||  
 Db 15 GCGGTATCTGAAG 1

RESULT 37

US-09-752-983-129  
 Sequence 129, Application US/09752983  
 Patent No. US20010016575A1

RESULT 33  
 US-10-766-185-87  
 Sequence 87, Application US/10766185  
 Publication No. US20040152655A1  
 GENERAL INFORMATION:  
 APPLICANT: Yoon, Heejeong  
 APPLICANT: Ahn, Chang Ho  
 APPLICANT: Lee, Young Bok  
 APPLICANT: Mao, Lingjun  
 APPLICANT: Jiang, Xiaoming  
 TITLE OF INVENTION: Antisense Oligonucleotides that inhibit expression of HIF-1  
 FILE REFERENCE: REX 7034  
 CURRENT APPLICATION NUMBER: US/10/766,185  
 CURRENT FILING DATE: 2004-01-28  
 NUMBER OF SEQ ID NOS: 130  
 SOFTWARE: Patentin version 3.1  
 SEQ ID NO 87  
 LENGTH: 20  
 TYPE: DNA  
 ORGANISM: artificial sequence  
 FEATURE:  
 OTHER INFORMATION: antisense oligonucleotide  
 US-10-766-185-87

Query Match 56.2%; Score 11.8; DB 19; Length 20;  
 Best Local Similarity 86.7%; Pred. No. 5.6e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CGTATCTGAAGATTC 19  
 |||||  
 Db 3 CATATCTGAAGATTC 17

RESULT 34

US-10-719-370A-166  
 Sequence 166, Application US/10719370A  
 Publication No. US20040220393A1  
 GENERAL INFORMATION:  
 APPLICANT: Ward, Donna T.  
 APPLICANT: Dobie, Kenneth W.  
 APPLICANT: Marcussen, Eric G.  
 APPLICANT: Freier, Susan M.  
 TITLE OF INVENTION: MODULATION OF HIF1A AND HIF2a EXPRESSION  
 FILE REFERENCE: ISPT-1010  
 CURRENT APPLICATION NUMBER: US/10/719,370A  
 CURRENT FILING DATE: 2003-11-21  
 PRIOR APPLICATION NUMBER: US 10/304,126  
 PRIOR FILING DATE: 2002-11-23  
 NUMBER OF SEQ ID NOS: 458  
 SOFTWARE: Patentin version 3.2  
 SEQ ID NO 166  
 LENGTH: 20  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Synthetic Construct  
 US-10-719-370A-166

Query Match 56.2%; Score 11.8; DB 20; Length 20;  
 Best Local Similarity 86.7%; Pred. No. 5.6e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CGTATCTGAAGATTC 19  
 |||||  
 Db 3 CATATCTGAAGATTC 17

RESULT 35

US-10-198-235-118/c  
 Sequence 118, Application US/10198235  
 Publication No. US20030190634A1

```

; GENERAL INFORMATION:
; APPLICANT: Loren J. Miraglia, Pamela Nero, Mark J.
; APPLICANT: Graham, Brett P. Monia
; TITLE OF INVENTION: ANTISENSE MODULATION OF HUMAN MDM2
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 271
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Law Offices of Jane Massey Licata
; STREET: 66 East Main Street
; CITY: Marlton
; STATE: NJ
; COUNTRY: U.S.A.
; ZIP: 08053
; COMPUTER READABLE FORM:
; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE
; COMPUTER: IBM PC
; OPERATING SYSTEM: WINDOWS 95
; SOFTWARE: WORDPERFECT 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/752,983
; FILING DATE: 02-Jan-2001
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/280,805
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Licata, Jane Massey
; REGISTRATION NUMBER: 32,257
; REFERENCE/DOCKET NUMBER: ISPH-0346
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-810-1515
; TELEFAX: 609-810-1454
; INFORMATION FOR SEQ ID NO: 129:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; ANTI-SENSE: Yes
; US-09-752-983-129

```

```

Query Match 55.2%; Score 11.6; DB 9; Length 20;
Best Local Similarity 77.8%; Pred. No. 7e+04;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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QY 2 TGGCGTATCTGAGAGCTC 19
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DB 1 TGGCGTCCCTGTAGATTC 18

```

```

RESULT 38
US-09-888-049-15/c
; Sequence 15, Application US/09888049
; Patent No. US20020137215a1
; GENERAL INFORMATION:
; APPLICANT: Francis, Kevin P.
; APPLICANT: Purchio, Anthony F.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR USE THEREOF IN MODIFYING
; TITLE OF INVENTION: THE GENOMES OF MICROORGANISMS
; FILE REFERENCE: PXE-013 USP / 9400-0013
; CURRENT APPLICATION NUMBER: US/09/888,049
; CURRENT FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/216,257
; PRIOR FILING DATE: 2000-07-06
; PRIOR APPLICATION NUMBER: 60/274,105
; PRIOR FILING DATE: 2001-03-07
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

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; OTHER INFORMATION: Description of Artificial Sequence: Primer
; OTHER INFORMATION: LuxA-Rev
; US-09-888-049-15
Query Match 55.2%; Score 11.6; DB 9; Length 20;
Best Local Similarity 77.8%; Pred. No. 7e+04;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 4 GCGTATCTGAGAGCTGTG 21
||| ||| ||| ||| |||
DB 19 GCATCTCTGAGAGGTGTG 2

RESULT 39
US-10-094-146-4/c
; Sequence 4, Application US/10094146
; Publication No. US20020192755A1
; GENERAL INFORMATION:
; APPLICANT: FRANCIS, Kevin P.
; APPLICANT: DOYLE, Timothy C.
; APPLICANT: NAWOTKA, Kevin A.
; TITLE OF INVENTION: METHODS OF SCREENING FOR INTRODUCTION OF DNA INTO A
; TITLE OF INVENTION: TARGET CELL
; FILE REFERENCE: 9400-0015 / PXE-015.US
; CURRENT APPLICATION NUMBER: US/10/094,146
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: 60/274,094
; PRIOR FILING DATE: 2001-03-07
; PRIOR APPLICATION NUMBER: 60/292,828
; PRIOR FILING DATE: 2001-05-22
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: primer LuxA-Rev
; US-10-094-146-4

```

```

Query Match 55.2%; Score 11.6; DB 13; Length 20;
Best Local Similarity 77.8%; Pred. No. 7e+04;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 4 GCGTATCTGAGAGCTGTG 21
||| ||| ||| ||| |||
DB 19 GCATCTCTGAGAGGTGTG 2

```

```

RESULT 40
US-10-093-365-20/c
; Sequence 20, Application US/10093365
; Publication No. US20030099962A1
; GENERAL INFORMATION:
; APPLICANT: Scherthaner, Johann
; APPLICANT: Fische, Caroline
; APPLICANT: Robert, Iaurian
; TITLE OF INVENTION: Methods to Isolate Gene Coding and Flanking DNA
; FILE REFERENCE: 0811.1200001
; CURRENT APPLICATION NUMBER: US/10/093,365
; CURRENT FILING DATE: 2002-03-08
; PRIOR APPLICATION NUMBER: US 60/274,239
; PRIOR FILING DATE: 2001-03-09
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial DNA Sequence
; US-10-093-365-20

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Fri Aug 12 15:50:27 2005

Query Match 55.2%; Score 11.6; DB 14; Length 20;  
Best Local Similarity 77.8%; Pred. No. 7e+04;  
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 GCGTATCTGAGAGTCT 20  
||| |  
Db 19 GCGTTTATGAGACGCT 2  
||| |

Search completed: August 12, 2005, 11:11:23  
Job time : 373 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 09:55:08 ; Search time 1806 Seconds  
(without alignments)

442.608 Million cell updates/sec

Title: US-09-743-825-8

Perfect score: 21

Sequence: 1 ctggcgatctgaagagtctg 21

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 34239544 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters: 15386

Minimum DB seq length: 0

Maximum DB seq length: 21

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

EST:\*

1: gb\_est1:\*

2: gb\_est2:\*

3: gb\_est3:\*

4: gb\_est4:\*

5: gb\_est5:\*

6: gb\_est6:\*

7: gb\_est7:\*

8: gb\_est8:\*

9: gb\_est9:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	10.4	49.5	20	8	AZ784664
2	10.2	48.6	15	9	AJ592729
3	10	47.6	21	6	CA851013
4	9.8	46.7	19	8	AZ495849
5	9.8	46.7	19	8	AZ875769
6	9.6	45.7	20	8	AZ489135
7	9.4	44.8	17	9	CL681189
8	9.2	43.8	20	8	AZ308384
9	9.2	43.8	20	8	AZ316351
10	9.2	43.8	20	8	AZ328275
11	9	42.9	10	9	AJ587417
12	9	42.9	16	1	AJ684587
13	9	42.9	20	8	AZ625776
14	9	42.9	21	4	BG924548
15	8.8	41.9	17	9	AJ587168
16	8.8	41.9	20	6	C00979
17	8.8	41.9	20	7	CF325351
18	8.8	41.9	20	7	D20709
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20	8.6	41.0	19	7	C0778852
21	8.6	41.0	20	8	AZ480596
22	8.6	41.0	20	8	AZ658035
23	8.6	41.0	21	9	AG194535
24	8.4	40.0	19	8	AZ623493

AZ818271 2M0088M08  
AG199044 Pan trogl  
AG203835 Pan trogl  
AZ787920 2M0034M09  
CL694050 PRI0163a  
CL423467 01S0557-0  
AG62026 AJ662026  
AJ588865 Arabidops  
AZ358656 1M0101K12  
BQ595520 E012693-0  
AZ320114 1M0040D05  
AZ436082 1M0233A10  
AZ772787 1M0583M24  
AZ807038 2M0069C06  
CL436802 PST3869-N  
BG927412 HNC1-1-G1  
BG924475 HNC27-1-D  
D11800 HUMH01G12  
D11801 HUMH01H01  
D11803 HUMH01H05  
D11818 HUMH02B04  
BG928185 HNC65-1-D  
BG929060 HNC11-1-G  
BG900971 HNC52-1-C  
BG924473 HNC27-1-D  
CD532195 26A8 Arab  
CO779101 BL005C F0  
AZ316351 1M0034A11  
AZ619410 1M0451F11  
AZ649987 1M0519J21  
AZ817897 2M0087D09  
AZ835078 2M0129E07  
CO792195 NT014B H0  
AZ511294 1M0356G16  
AZ607204 1M0429H03  
AZ623540 1M0461G23  
AZ875020 2M0189B24  
AG203054 Pan trogl  
AJ649143 AJ649143  
AJ587324 Arabidops  
AJ592301 Arabidops  
CF717235 HD--06-N1  
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AZ490612 1M0323I11  
AZ508355 1M0350O13  
AZ795136 2M0049A16  
AZ834391 2M0117N04  
CL668704 PRI0158b  
BQ593485 S015529-0  
AZ475341 1M0293H11  
AZ610524 1M0435B21  
AZ832001 2M0112001  
AG190598 Pan trogl  
AJ587844 Arabidops  
AU256271 AU256271  
AZ331625 1M0082H07  
AZ346766 1M0082H08  
AZ510119 1M0354I23  
AZ628010 1M0476K09  
AZ819244 2M0089F14  
AZ820567 2M0189D22  
AZ875300 2M0194D B0  
AJ598321 Arabidops  
BG927923 HNC45-1-E  
C01992 HUMG000401  
CL678657 PRI0123C-  
AB088509 AB088509  
AZ646291 1M0512D07  
AZ774829 2M0004D10  
AJ587945 Arabidops  
AU257572 AU257572

c 98 7.6 36.2 21 7 C0788185 C0788185 NT003C.A1  
 99 7.6 36.2 21 8 AZ393342 AZ393342 LM0156C21  
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## ALIGNMENTS

RESULT 1  
 AZ784664  
 LOCUS  
 DEFINITION 2M027110R Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
 clone UUGC2M0027110 R, genomic survey sequence.  
 ACCESSION AZ784664  
 VERSION AZ784664.1 GI:12920631  
 SOURCE GSS.  
 ORGANISM Mus musculus (house mouse)  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 20)  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
 Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,  
 Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von  
 Niederhausern,A. and Wright,D. Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0027 row: I column: 10  
 Seq primer: CACACAGAAACAGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 20.  
 Location/Qualifiers  
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 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC2M0027110"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, Tl-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /notes="Vector: FWD42nv; Purified genomic DNA from M.  
 musculus C57BL/6J (male) was obtained from the Jackson  
 Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA  
 was hydronamically sheared by repeated passage through a  
 0.005 inch orifice at constant velocity. The sheared DNA  
 was blunt end-repaired with T4 DNA polymerase and T4  
 polynucleotide kinase. Adaptor oligonucleotides were  
 ligated to the blunt ends in high molar excess. The  
 adaptor DNA was purified and size-selected for a 9.5 to  
 10.5 Kb range using preparative agarose gel  
 electrophoresis. Vector DNA was prepared from a derivative  
 of pWD42 (GII4732114|GB|AF129072.1), a copy-number  
 inducible derivative of plasmid R1. The vector was ligated  
 with adaptors complementary to the insert adaptors and  
 purified. The sheared, adaptor mouse DNA was annealed to  
 adaptor vector DNA, and transformed into  
 chemically-competent E. coli XL10-Gold (Stratagene) cells  
 and selected for ampicillin resistance."

FEATURES  
source

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 /cultivar="Wassiljewskija"  
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 /clone="631B09"  
 /clone\_lib="Arabidopsis thaliana T-DNA insertion lines"  
 1..15  
 /note="T-DNA flanking sequence  
 right border"

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Query Match 49.5%; Score 10.4; DB 8; Length 20;

Best Local Similarity 91.7%; Pred. No. 1.8e+06;  
 Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 10 CTGAAGAGTCTG 21  
 |||||  
 Db 1 CTGAAGGGTCTG 12

RESULT 2  
 AJ592729/c  
 LOCUS  
 DEFINITION Arabidopsis thaliana T-DNA flanking sequence, right border, clone  
 631B09, genomic survey sequence.  
 ACCESSION AJ592729  
 VERSION AJ592729.1 GI:37942353  
 KEYWORDS GSS; right border; T-DNA flanking sequence.  
 SOURCE Arabidopsis thaliana (thale cress)  
 ORGANISM Arabidopsis thaliana  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;  
 rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.  
 1  
 Brunaud,V., Balzergue,S., Dubreucq,B., Aubourg,S., Sanson,F.,  
 Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G.,  
 Lepiniec,L., Caboche,M. and Lecharny,A.  
 T-DNA integration into the Arabidopsis genome depends on sequences  
 of pre-insertion sites  
 EMBO Rep. 3 (12), 1152-1157 (2002)  
 22363535  
 PUBLISHED 12446565  
 REFERENCE 2 (bases 1 to 15)  
 Balzergue,S.  
 Direct Submission  
 Submitted (23-OCT-2003) Balzergue S., UMRGV, INRA/CNRS, 2 rue  
 Gaston Cremieux, 91057 Evry cedex, FRANCE  
 PCR was performed on DNA from transformants of Arabidopsis thaliana  
 plants from INRA (Versailles). The DNA fragment(s) resulting from  
 the PCR were directly sequenced from the left or the right border  
 to determine the genomic sequence flanking the insertion. T-DNA  
 derived sequences were removed. Information to order the  
 corresponding mutant line and a link to a database providing a  
 graphical display of the insertion site are available at  
 http://dbsgap.versailles.inra.fr/publiclines/. This sequence has  
 been generated in the framework of the French plant genomics  
 program 'Genoplante' (http://www.genoplante.com and  
 http://genoplante-info.inrobiogen.fr).  
 Location/Qualifiers  
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 /cultivar="Wassiljewskija"  
 /db\_xref="taxon:3702"  
 /clone="631B09"  
 /clone\_lib="Arabidopsis thaliana T-DNA insertion lines"  
 1..15  
 /note="T-DNA flanking sequence  
 right border"

Query Match 48.6%; Score 10.2; DB 9; Length 15;  
 Best Local Similarity 80.0%; Pred. No. 2.2e+06;  
 Matches 12; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 2 TGGCGTATCTGAAGA 16  
 |||||  
 Db 15 TGGAGAACTCTGGAGA 1

RESULT 3  
 CA851013/c  
 LOCUS  
 DEFINITION 21 bp mRNA linear EST 01-AUG-2003  
 D09B11.C11.04.ab1 cDNA Peking library 2, 4 day SCN3 Glycine max  
 cDNA clone D09B11 5', mRNA sequence.

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ACCESSION      CA851013
VERSION        CA851013.1  GI:33387806
KEYWORDS       EST
SOURCE         Glycine max (soybean)
ORGANISM       Glycine max
               Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
               Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
               rosids; eurosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae;
               Glycine
REFERENCE      1 (bases 1 to 21)
AUTHORS        Alkharouf, N.W., Khan, R. and Matthews, B.F.
TITLE          Analysis of expressed sequence tags from roots of resistant soybean
               infected by the soybean cyst nematode
JOURNAL        Unpublished (2002)
COMMENT        Contact: Alkharouf, N.W.
               Soybean Genomics and Improvement Laboratory (SGIL)
               US Department of Agriculture (USDA), ARS, PSI
               Bldg. 006, Rm 118, 10300 Baltimore Ave., Beltsville, MD 20705-2350,
               USA
               Tel: 301 504 5750
               Fax: 301 504 5728
               Email: alkharouf@ba.ars.usda.gov.
FEATURES       Location/Qualifiers
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               /organism="Glycine max"
               /mol_type="mRNA"
               /cultivar="Peking"
               /db_xref="taxon:3847"
               /clone="D09B11"
               /tissue_type="Roots"
               /dev_stage="Seedlings"
               /clone_lib="cDNA Peking library 2, 4 day SCN3"
               /notes="Vector: pBluescript SK-; cDNA clones from mRNA
               extracted from Peking roots 2 and 4 days past invasion."
ORIGIN
Query Match      47.6%; Score 10; DB 6; Length 21;
Best Local Similarity 72.2%; Pred. No. 2.9e+06;
Matches 13; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy      4  GCGTATCTGAGAGTCTG 21
        |||||
Db      20 GCGTATGTGTATTATG 3

RESULT 4
AZ495849/c
LOCUS      AZ495849
DEFINITION 1M0331N22R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0331N22 R, genomic survey sequence.
ACCESSION  AZ495849
VERSION     AZ495849.1  GI:10671571
KEYWORDS    GSS.
SOURCE      Mus musculus (house mouse)
ORGANISM    Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE   1 (bases 1 to 19)
AUTHORS      Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
            Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
            Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
            Niederhausern, A. and Wright, D., Weiss, R.
TITLE        Mouse whole genome scaffolding with paired end reads from 10kb
            plasmid inserts
JOURNAL      Unpublished (2000)
COMMENT      Contact: Robert B. Weiss
            University of Utah Genome Center
            University of Utah
            Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
            84112, USA
            Tel: 801 585 5606
            Fax: 801 585 7177
            Email: ddunn@genetics.utah.edu

us-09-743-825-8.max.rst

```

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Insert Length: 10000 Std Error: 0.00
Plate: 0331 row: N column: 22
Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
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/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0331N22"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
ORIGIN
Query Match      46.7%; Score 9.8; DB 8; Length 19;
Best Local Similarity 84.6%; Pred. No. 3.6e+06;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      9  TCTGAGAGTCTG 21
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Db      15 TCTGCAGAGCCTG 3

RESULT 5
AZ875769
LOCUS      AZ875769
DEFINITION 2M0190A02R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC2M0190A02 R, genomic survey sequence.
ACCESSION  AZ875769
VERSION     AZ875769.1  GI:13086107
KEYWORDS    GSS.
SOURCE      Mus musculus (house mouse)
ORGANISM    Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE   1 (bases 1 to 19)
AUTHORS      Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
            Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
            Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
            Niederhausern, A. and Wright, D., Weiss, R.
TITLE        Mouse whole genome scaffolding with paired end reads from 10kb
            plasmid inserts
JOURNAL      Unpublished (2000)
COMMENT      Contact: Robert B. Weiss
            University of Utah Genome Center
            University of Utah
            Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
            84112, USA
            Tel: 801 585 5606
            Fax: 801 585 7177
            Email: ddunn@genetics.utah.edu

```

Insert Length: 10000 Std Error: 0.00  
 Plate: 0190 row: A column: 02  
 Seq primer: CACACAGGAACAGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 19.  
 Location/Qualifiers

## FEATURES

source

1. .19  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC2M0190A02"  
 /sex="Male"

/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGCLM library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (GI|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 46.7%; Score 9.8; DB 8; Length 19;  
 Best Local Similarity 84.6%; Pred. No. 3.6e+06;  
 Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CTGGCGTATCTGA 13

Db 7 CTGGAGTGTCTGA 19

## RESULT 6

AZ489135

LOCUS

DEFINITION 1M0319H15R Mouse 10kb plasmid UUGCLM library Mus musculus genomic  
 clone UUGC1M0319H15 R, genomic survey sequence.

ACCESSION

AZ489135

VERSION

AZ489135.1 GI:10658589

KEYWORDS

GSS.

SOURCE

Mus musculus (house mouse)

ORGANISM

Mus musculus

Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 20)

Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,

Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,

Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von

Niederhauser,A. and Wright,D.,Weiss,R.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00  
 Plate: 0319 row: H column: 15  
 Seq primer: CACACAGGAACAGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 20.  
 Location/Qualifiers

## FEATURES

source

1. .20  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0319H15"  
 /sex="Male"

/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGCLM library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (GI|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 45.7%; Score 9.6; DB 8; Length 20;  
 Best Local Similarity 75.0%; Pred. No. 4.6e+06;  
 Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 TGGCGTATCTGAAGAG 17

Db 3 TGGCTTTCTGAGGG 18

## RESULT 7

CL681189

LOCUS

DEFINITION PRI0130b\_G06\_2 - PRI0130b.BR (17) Mixed stage fosmid library of P. pacificus var. California Pristionchus pacificus genomic, genomic survey sequence.

ACCESSION

CL681189

VERSION

CL681189.1 GI:50188197

KEYWORDS

GSS.

SOURCE

Pristionchus pacificus

Pristionchus pacificus

Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida;

1 (bases 1 to 17)

Srinivasan,J., Otto,G.W., Kahlow,U., Geisler,R. and Sommer,R.J.

AppADB: an AcedB database for the nematode satellite organism

Pristionchus pacificus

Nucleic Acids Res. 32 (1), D421-D422 (2004)

Contact: Sommer RJ

Evolutionary Biology

Max-Planck-Institute for Developmental Biology

Spemannstr. 37-39, Tuebingen D-72076, Germany

Tel: 00497071601371

Fax: 00497071601498

Email: ralf.sommer@tuebingen.mpg.de

This library was generated at Caltech, Pasadena, USA and end

sequenced at Vancouver, Canada.

Seq primer: T7

Class: fosmid ends.  
 Location/Qualifiers  
 1. .17  
 /organism="Pristionchus pacificus"  
 /mol\_type="genomic DNA"  
 /strain="California"  
 /db\_xref="taxon:54126"  
 /clone\_lib="Mixed stage fosmid library of *P. pacificus*  
 var. *California*"  
 /note="Vector: pEpifos-5 Fosmid vector"

## ORIGIN

Query Match 44.8%; Score 9.4; DB 9; Length 17;  
 Best Local Similarity 90.9%; Pred. No. 5.7e+06;  
 Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 GTATCTGAAGA 16  
 |||||  
 Db 6 GTATCTGCAGA 16

RESULT 8  
 AZ308384  
 LOCUS 20 bp DNA linear GSS 29-SEP-2000  
 DEFINITION 1M0011K17F Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
 clone UUGC1M0011K17 F, genomic survey sequence.

ACCESSION AZ308384.1 GI:10348326  
 VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM

Mus musculus (house mouse)  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 20)  
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
 Reilly, M., Rose, R., Stokes, R., Tingey, A., von  
 Niederhausern, A. and Wright, D. Weiss, R.  
 Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts

Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA

Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0011 row: K column: 17  
 Seq primer: CGTTGTAAACGACGCGCAGT  
 Class: plasmid ends  
 High quality sequence stop: 20.

## FEATURES

source

1. .20  
 Location/Qualifiers  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0011K17"  
 /sex="Male"

/lab host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="vector: PWD42nv; Purified genomic DNA from M.  
 musculus C57BL/6J (male) was obtained from the Jackson  
 Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA  
 was hydrodynamically sheared by repeated passage through a  
 0.005 inch orifice at constant velocity. The sheared DNA  
 was blunt end-repaired with T4 DNA polymerase and T4  
 polynucleotide kinase. Adaptor oligonucleotides were  
 ligated to the blunt ends in high molar excess. The

adaptored DNA was purified and size-selected for a 9.5 to  
 10.5 kb range using preparative agarose gel  
 electrophoresis. Vector DNA was prepared from a derivative  
 of PWD42 (gi|4732114|gb|AF129072.1), a copy-number  
 inducible derivative of plasmid R1. The vector was ligated  
 with adaptors complementary to the insert adaptors and  
 purified. The sheared, adaptored mouse DNA was annealed to  
 adaptored vector DNA, and transformed into  
 chemically-competent *E. coli* XL10-Gold (Stratagene) cells  
 and selected for ampicillin resistance."

## ORIGIN

Query Match 43.8%; Score 9.2; DB 8; Length 20;  
 Best Local Similarity 78.6%; Pred. No. 7.4e+06;  
 Matches 11; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 8 ATCTGAAGAGTCTG 21  
 |||||  
 Db 4 ATCTGAAGTGACCG 17

RESULT 9  
 AZ316351/c  
 LOCUS 20 bp DNA linear GSS 29-SEP-2000  
 DEFINITION 1M0034A11F Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
 clone UUGC1M0034A11 F, genomic survey sequence.

ACCESSION AZ316351  
 VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM

Mus musculus (house mouse)  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 20)  
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
 Reilly, M., Rose, R., Stokes, R., Tingey, A., von  
 Niederhausern, A. and Wright, D. Weiss, R.  
 Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts

Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA

Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0034 row: A column: 11  
 Seq primer: CGTTGTAAACGACGCGCAGT  
 Class: plasmid ends  
 High quality sequence stop: 20.

## FEATURES

source

1. .20  
 Location/Qualifiers  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0034A11"  
 /sex="Male"

/lab host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="vector: PWD42nv; Purified genomic DNA from M.  
 musculus C57BL/6J (male) was obtained from the Jackson  
 Laboratory Mouse DNA Resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA  
 was hydrodynamically sheared by repeated passage through a  
 0.005 inch orifice at constant velocity. The sheared DNA  
 was blunt end-repaired with T4 DNA polymerase and T4  
 polynucleotide kinase. Adaptor oligonucleotides were  
 ligated to the blunt ends in high molar excess. The

adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

# ORIGIN

Query Match 43.8%; Score 9.2; DB 8; Length 20;  
 Best Local Similarity 78.6%; Pred. No. 7.4e+06;  
 Matches 11; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 8 ATCTGAAGAGTCTG 21  
 ||||| ||||| |||||  
 Db 20 ATCTCAAGATACTG 7

RESULT 10  
 AZ328275/c  
 LOCUS  
 DEFINITION 20 bp DNA linear GSS 29-SEP-2000  
 1M0052A01F Mouse 10kb plasmid UUGCIM library Mus musculus genomic  
 clone UUGCIM0052A01 F, genomic survey sequence.

ACCESSION  
 AZ328275  
 VERSION  
 AZ328275.1 GI:10387840  
 KEYWORDS  
 GSS.  
 SOURCE  
 Mus musculus (house mouse)  
 ORGANISM  
 Mus musculus

REFERENCE  
 AUTHORS  
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 20)  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
 Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,  
 Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von  
 Niederhausern,A. and Wright,D.,Weiss,R.

TITLE  
 Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts

JOURNAL  
 COMMENT  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177

Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0052 row: A column: 01  
 Seq primer: CGTTGTAACACGACGCCAGT  
 Class: plasmid ends  
 High quality sequence stop: 20.

# FEATURES

source  
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 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGCIM0052A01"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGCIM library"  
 /notes="Vector: PWD42nv; Purified genomic DNA from M.  
 musculus C57BL/6J (male) was obtained from the Jackson  
 Laboratory Mouse DNA resource  
 (http://www.jax.org/resources/documents/dnares/). The DNA  
 was hydrodynamically sheared by repeated passage through a  
 0.005 inch orifice at constant velocity. The sheared DNA  
 was blunt end-repaired with T4 DNA polymerase and T4  
 polynucleotide kinase. Adaptor oligonucleotides were  
 ligated to the blunt ends in high molar excess. The

adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

# ORIGIN

Query Match 43.8%; Score 9.2; DB 8; Length 20;  
 Best Local Similarity 78.6%; Pred. No. 7.4e+06;  
 Matches 11; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 GCGTATCTGAAGAG 17  
 ||||| ||||| |||||  
 Db 19 GCGTACCTGTAAG 6

RESULT 11  
 AJ587417/c  
 LOCUS  
 DEFINITION 10 bp DNA linear GSS 15-JAN-2004  
 Arabidopsis thaliana T-DNA flanking sequence, left border, clone  
 275G07, genomic survey sequence.

ACCESSION  
 AJ587417  
 VERSION  
 AJ587417.1 GI:37937041  
 KEYWORDS  
 GSS; left border; T-DNA flanking sequence.  
 SOURCE  
 Arabidopsis thaliana (thale cress)  
 ORGANISM  
 Arabidopsis thaliana

REFERENCE  
 AUTHORS  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;  
 rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.  
 1  
 Brunaud,V., Balzerque,S., Dubreucq,B., Aubourg,S., Samson,F.,  
 Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G.,  
 Lepiniec,L., Caboche,M. and Lecharny,A.

TITLE  
 T-DNA integration into the Arabidopsis genome depends on sequences  
 of pre-insertion sites  
 EMBO Rep. 3 (12), 1152-1157 (2002)

JOURNAL  
 MEDLINE  
 22363535  
 PUBMED  
 12446565  
 REFERENCE  
 2 (bases 1 to 10)  
 Balzerque,S.  
 Direct Submission

COMMENT  
 Submitted (23-OCT-2003) Balzerque S., UMRGV, INRA/CNRS, 2 rue  
 Gaston Cremieux, 91057 Evry cedex, FRANCE  
 PCR was performed on DNA from transformants of Arabidopsis thaliana  
 plants from INRA (Versailles). The DNA fragment(s) resulting from  
 the PCR were directly sequenced from the left or the right border  
 to determine the genomic sequence flanking the insertion. T-DNA  
 derived sequences were removed. Information to order the  
 corresponding mutant line and a link to a database providing a  
 graphical display of the insertion site are available at  
 http://dbsgap.versailles.inra.fr/publiclines/. This sequence has  
 been generated in the framework of the French plant genomics  
 program 'Genoplante' (http://www.genoplante.com and  
 http://genoplante-info.infobiogen.fr).

# FEATURES

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1..10  
 /Location/Qualifiers  
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 /mol\_type="genomic DNA"  
 /cultivar="Wassilewskija"  
 /db\_xref="taxon:3702"  
 /clone="275G07"  
 /clone\_lib="Arabidopsis thaliana T-DNA insertion lines"  
 1..10  
 /note="T-DNA flanking sequence  
 left border"

misc\_feature

# ORIGIN

Query Match 42.9%; Score 9; DB 9; Length 10;



Best Local Similarity 100.0%; Pred. No. 8.5e+06; Mismatches 0; Indels 0; Gaps 0;

QY 13 AGAGTCTG 21  
| | | | |  
Db 9 AGAGTCTG 1

RESULT 12  
LOCUS AJ684587 16 bp mRNA linear EST 29-JUN-2004  
DEFINITION AJ684587 CSEQRAN04 Sus scrofa cDNA clone C001805\_G15, mRNA sequence.  
ACCESSION AJ684587  
VERSION AJ684587.1 GI:49417177  
KEYWORDS EST.  
SOURCE Sus scrofa (pig)  
ORGANISM Sus scrofa  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.  
1 (bases 1 to 16)  
REFERENCE Anderson, S.I., Finlayson, H.A. and Archibald, A.L.  
AUTHORS Development of cDNA and EST resources for studying reproduction and embryo development in pigs and cattle  
TITLE Unpublished (2004)  
JOURNAL  
COMMENT Contact: Anderson SI  
Genomics and Bioinformatics  
Roslin Institute  
Roslin, Midlothian, EH25 9PS, UNITED KINGDOM  
Single pass sequencing. Bases called and trimmed with phred v0.020425.c. Vector identified by cross match with the -minscore 20 and -mismatch 12 options. Vector: pBluescriptII (KS+) R. Site1: EcoRI R. Site2: NotI 5' Seq Primer M13F Normalised library constructed from pig uterus. Clones available from UK Centre for Functional Genomics in Farm Animals, Roslin Institute, Roslin, Midlothian, UK, EH25 9PS, www.arkgenomics.org.  
FEATURES  
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1..16  
/organism="Sus scrofa"  
/mol\_type="mRNA"  
/db\_xref="taxon:9823"  
/clone="C001805\_G15"  
/tissue\_type="uterus"  
/clone\_lib="CSEQRAN04"  
/note="vector: pBluescriptII (KS+); Site 1: EcoRI; Site 2: NotI; Single pass sequencing. Normalised library constructed from pig uterus."  
ORIGIN  
Query Match 42.9%; Score 9; DB 1; Length 16;  
Best Local Similarity 100.0%; Pred. No. 9e+06; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 GAAGTCT 20  
| | | | |  
Db 1 GAAGTCT 9

RESULT 13  
LOCUS AZ625776 20 bp DNA linear GSS 13-DEC-2000  
DEFINITION IM0465C08R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0465C08 R, genomic survey sequence.  
ACCESSION AZ625776  
VERSION AZ625776.1 GI:11747966  
KEYWORDS GSS.  
SOURCE Mus musculus (house mouse)  
ORGANISM Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 20)  
REFERENCE Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,

Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.  
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah Genome Center  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0465 row: C column: 08  
Seq primer: CACACAGAAACAGCTATGACC  
Class: plasmid ends  
High quality sequence stop: 20.  
FEATURES  
source Location/Qualifiers  
1..20  
/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC1M0465C08"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/note="vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

Query Match 42.9%; Score 9; DB 8; Length 20;  
Best Local Similarity 70.6%; Pred. No. 9.3e+06; Mismatches 12; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 4 GCGTATCTGAAGTCT 20  
| | | | |  
Db 2 GCGCACTTCAAGATTCT 18

RESULT 14  
LOCUS BG924548/c 21 bp mRNA linear EST 06-NOV-2001  
DEFINITION HNC27-1-G10.R HNC (Human Normal Cartilage) Homo sapiens cDNA, mRNA sequence.  
ACCESSION BG924548  
VERSION BG924548.1 GI:14319071  
KEYWORDS EST.  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 21)  
REFERENCE Kumar, S., Connor, J.R., Dodds, R.A., Halsey, W., Van Horn, M., Mao, J., Sathe, G., Mui, P., Agarwal, P., Badger, A.M., Lee, J.C., Gowen, M. and

Lark,M.W.  
 Identification and initial characterization of 5000 expressed  
 sequenced tags (ESTs) each from adult human normal and  
 osteoarthritic cartilage cDNA libraries  
 Osteoarthr. Cartil. 9 (7), 641-653 (2001)  
 MEDLINE  
 PUBMED 21482651  
 COMMENT 11597177  
 Contact: Sanjay Kumar  
 UW2109  
 GlaxoSmithKline  
 709 Swedeland Road, P.O. Box 1539, King of Prussia, PA 19406, USA  
 Tel: 610-270-7245  
 Fax: 610-270-5598  
 Email: sanjay\_kumar-l@sk.com  
 Seq primer: T7.  
 Location/Qualifiers  
 1..21  
 /organism="Homo sapiens"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:9606"  
 /tissue\_type="cartilage"  
 /lab\_host="E.coli DH10 B"  
 /clone\_lib="HNC (Human Normal Cartilage)"  
 /note="Vector: pSPORT I; Site\_1: SalI; Site\_2: NotI;  
 Directional"

FEATURES  
 source  
 1..21  
 /organism="Homo sapiens"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:9606"  
 /tissue\_type="cartilage"  
 /lab\_host="E.coli DH10 B"  
 /clone\_lib="HNC (Human Normal Cartilage)"  
 /note="Vector: pSPORT I; Site\_1: SalI; Site\_2: NotI;  
 Directional"

ORIGIN  
 Query Match 42.9%; Score 9; DB 4; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 9.3e+06;  
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGGCGGTAT 9  
 |||||  
 DB 12 CTGGCGGTAT 4

RESULT 15  
 AJ587168/c  
 LOCUS Arabidopsis thaliana T-DNA flanking sequence, left border, clone  
 DEFINITION 233H03, genomic survey sequence.  
 ACCESSION AJ587168  
 VERSION 1 GI:37936757  
 KEYWORDS GSS; left border; T-DNA flanking sequence.  
 SOURCE Arabidopsis thaliana (thale cress)  
 ORGANISM Arabidopsis thaliana  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;  
 rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.  
 REFERENCE 1  
 AUTHORS Brunaud,V., Balzergue,S., Dubreucq,B., Aubourg,S., Samson,F.,  
 Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G.,  
 Lepiniec,L., Caboche,M. and Lecharny,A.  
 T-DNA integration into the Arabidopsis genome depends on sequences  
 of pre-insertion sites  
 EMBO Rep. 3 (12), 1152-1157 (2002)  
 MEDLINE 22363535  
 PUBMED 12446565  
 REFERENCE 2 (bases 1 to 17)  
 AUTHORS Balzergue,S.  
 TITLE Direct Submission  
 JOURNAL Submitted (23-OCT-2003) Balzergue S., UMRGV, INRA/CNRS, 2 rue  
 Gaston Cremieux, 91057 Evry cedex, FRANCE  
 COMMENT PCR was performed on DNA from transformants of Arabidopsis thaliana  
 plants from INRA (Versailles). The DNA fragment(s) resulting from  
 the PCR were directly sequenced from the left or the right border  
 to determine the genomic sequence flanking the insertion. T-DNA  
 derived sequences were removed. Information to order the  
 corresponding mutant line and a link to a database providing a  
 graphical display of the insertion site are available at  
 http://dbsgap.versailles.inra.fr/publiclines/. This sequence has  
 been generated in the framework of the French plant genomics  
 program 'Genoplante' (http://www.genoplante.com and

http://genoplante-info.infobiogen.fr).  
 FEATURES  
 source  
 1..17  
 /organism="Arabidopsis thaliana"  
 /mol\_type="genomic DNA"  
 /cultivar="Wassiliewskija"  
 /db\_xref="taxon:3702"  
 /clone="233H03"  
 /clone\_lib="Arabidopsis thaliana T-DNA insertion lines"  
 1..17  
 /note="T-DNA flanking sequence  
 left border"

misc\_feature  
 1..17  
 /note="T-DNA flanking sequence  
 left border"

ORIGIN  
 Query Match 41.9%; Score 8.8; DB 9; Length 17;  
 Best Local Similarity 83.3%; Pred. No. 1.1e+07;  
 Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CGTATCTGAAGA 16  
 |||||  
 DB 12 CGTAGTTGAGA 1

RESULT 16  
 C00979  
 LOCUS HUMS0003365 Human adult (K.Okubo) Homo sapiens cDNA, mRNA  
 DEFINITION sequence.  
 ACCESSION C00979  
 VERSION C00979.1 GI:1433209  
 KEYWORDS EST.  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 20)  
 AUTHORS Okubo,K.  
 TITLE BodyMap; human gene expression database  
 JOURNAL Unpublished (1995)  
 COMMENT Contact: Okubo,K.  
 Institute for Molecular and Cellular Biol  
 Osaka University  
 1-3 Yamada-oka, Suita, Osaka Pref. 565, Japan  
 Tel: 06-877-5111(ex.3315)  
 Email: kousaku@imcb.osaka-u.ac.jp  
 We are not submitting the same cDNA sequence redundantly to DDBJ  
 since 1993. For the abundance information of clones with this  
 sequence in this library and as well as in other 3'-directed  
 libraries, see 'http://www.imcb.osaka-u.ac.jp/bodymap'. The  
 sequences of the clones represented by this GS sequences is also  
 found there.

FEATURES  
 source  
 1..20  
 /organism="Homo sapiens"  
 /mol\_type="mRNA"  
 /db\_xref="taxon:9606"  
 /dev\_stage="adult"  
 /clone\_lib="Human adult (K.Okubo)"  
 /note="One or more human adult tissue"

ORIGIN  
 Query Match 41.9%; Score 8.8; DB 6; Length 20;  
 Best Local Similarity 83.3%; Pred. No. 1.2e+07;  
 Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 8 ATCTGAAGAGTC 19  
 |||||  
 DB 2 ATCTTAGAGTC 13

RESULT 17  
 CF325351/c  
 LOCUS CF325351  
 20 bp mRNA linear EST 18-AUG-2003





Hoon, S. T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H.  
Direct Submission  
Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of  
Bioscience and Biotechnology (KRIBB), Genome Research Center (GRC);  
52, Oun-dong, Yusong-gu, Daejeon 305-333, Korea  
(E-mail: redstone@mail.krribb.re.kr, URL: http://phs.grc.krribb.re.kr/,  
Tel: 82-42-866-7181, Fax: 82-42-860-4409)  
Clones are derived from the chimpanzee BAC library RP-43 This BAC  
end was generated during the R&D process and may have higher chance  
of clone tracking errors.  
PRIMERS

Sequencing: T7

LIBRARY  
Vector : pBac3.6  
R.Site 1 : EcoRI  
R.Site 2 : EcoRI.  
Location/Qualifiers  
1. .21  
/organism="Pan troglodytes"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:9598"  
/clone="RP43-072L24.T7"  
/sex="male"  
/cell\_type="lymphocytes"  
/clone\_lib="RP-43 Chimpanzee Male BAC Library"

ORIGIN  
Query Match 41.0%; Score 8.6; DB 9; Length 21;  
Best Local Similarity 73.3%; Pred. NO. 1.5e+07;  
Matches 11; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
  
QY 7 TATCTGAAGAGCTGTG 21  
| | | | | | | | | |  
Db 16 TTTCTGTAGCATCTG 2

RESULT 24  
AZ623493/c  
LOCUS  
DEFINITION  
ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM  
REFERENCE  
AUTHORS  
  
TITLE  
JOURNAL  
COMMENT

AZ623493 19 bp DNA linear GSS 13-DEC-2000  
IM0461M13F Mouse 10kb plasmid UGCG1M library Mus musculus genomic  
clone UGCG1M0461M13 F, genomic survey sequence.  
AZ623493  
AZ623493.1 GI:11745683  
GSS.  
Mus musculus (house mouse)  
Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 19)  
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
Reilly, M., Rose, R., Rose, R., Stokes, R., Tingey, A., von  
Niederhausern, A. and Wright, D. Weiss, R.  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0461 row: M column: 13  
Seq primer: CGTGTAAACGACGCCAGT  
Class: plasmid ends  
High quality sequence stop: 19.  
Location/Qualifiers  
1. .19  
/organism="Mus musculus"  
/mol\_type="genomic DNA"

/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC1M0461M13"  
/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 40.0%; Score 8.4; DB 8; Length 19;  
Best Local Similarity 90.0%; Pred. No. 1.9e+07;  
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 TATCTGAAGA 16  
||| |||||  
Db 11 TAACGAAGA 2

## RESULT 25

AZ818271  
LOCUS 20 bp DNA linear GSS 20-FEB-2001  
DEFINITION 2M0088M08F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC2M0088M08 F, genomic survey sequence.

ACCESSION AZ818271  
VERSION 1  
KEYWORDS GSS.  
SOURCE Mus musculus (house mouse)

## ORGANISM

Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 20)

Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.

Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss  
University of Utah Genome Center  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT 84112, USA

Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00  
Plate: 0088 row: M column: 08

Seq primer: CGTTGTAACGACGCGCACT

Class: plasmid ends

High quality sequence stop: 20.

Location/Qualifiers

1. .20

/organism="Mus musculus"

/mol\_type="genomic DNA"

## FEATURES

## source

1. .20

/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC2M0088M08"  
/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 40.0%; Score 8.4; DB 8; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.9e+07;  
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 8 ATCTGAAGAG 17  
||||| |||  
Db 4 ATCTGAATAG 13

## RESULT 26

AG199044/c  
LOCUS 20 bp DNA linear GSS 06-MAR-2004  
DEFINITION Pan troglodytes DNA, clone: RP43-080D07.TJ, genomic survey sequence.

ACCESSION AG199044  
VERSION 1  
KEYWORDS GSS.  
SOURCE Pan troglodytes (chimpanzee)

## ORGANISM

Pan troglodytes  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.

1

Park,H., Kim,Y., Kim,S., Han,Y., Woo,T., Park,K., Eun,C.J., Hoon,S.T., Chu,M., Kim,H., Joo,S., Kim,C., Song,W. and Yoo,H.

BAC end sequences of Library RP-43

Unpublished

2 (bases 1 to 20)

Park,H., Kim,Y., Kim,S., Han,Y., Woo,T., Park,K., Eun,C.J., Hoon,S.T., Chu,M., Kim,H., Joo,S., Kim,C., Song,W. and Yoo,H.

Direct Submission

Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of Bioscience and Biotechnology (KRIIB), Genome Research Center (GRC); 52, Oun-dong, Yuseong-gu, Daejeon 305-333, Korea (E-mail:redstone@mail.kribb.re.kr, URL:http://phs.grc.kribb.re.kr/, Tel:82-42-866-7181, Fax:82-42-860-4409)

Clones are derived from the chimpanzee BAC library RP-43 This BAC end was generated during the R&D process and may have higher chance of clone tracking errors.

PRIMERS

Sequencing: TJ

LIBRARY

Vector : pBACe3.6

R.Site 1 : EcoRI.

R.Site 2 : EcoRI.

Location/Qualifiers

1. .20

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/organism="Pan troglodytes"
/mol_type="genomic DNA"
/db_xref="taxon:9598"
/clone="RP43-080D07.TJ"
/sex="male"
/cell_type="lymphocytes"
/clone_lib="RP-43 Chimpanzee Male BAC Library"

```

## ORIGIN

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Query Match      40.0%; Score 8.4; DB 9; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.9e+07;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

Qy 9 TCTGAGAGGT 18

Db 18 TATGAGAGGT 9

## RESULT 27

```

AG203835      20 bp DNA linear GSS 06-MAR-2004
LOCUS      Pan troglodytes DNA, clone: RP43-088M10.TJ, genomic survey
DEFINITION

```

ACCESSION AG203835

VERSION AG203835.1 GI:45236010

KEYWORDS GSS.

SOURCE Pan troglodytes (chimpanzee)

## ORGANISM

```

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Pan.

```

## REFERENCE

1 Park H., Kim, Y., Kim, S., Han, Y., Woo, T., Park, K., Eun, C. J.,

Hoon, S. T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H.

BAC end sequences of Library RP-43

Unpublished

2 (bases 1 to 20)

Park, H., Kim, Y., Kim, S., Han, Y., Woo, T., Park, K., Eun, C. J.,

Hoon, S. T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H.

Direct Submission

Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of

Bioscience and Biotechnology (KRIIBB), Genome Research Center (GRC);

52, Oun-dong, Yusong-gu, Daejeon 305-333, Korea

(E-mail:redstone@mail.kriibb.re.kr, URL:http://phs.grc.kriibb.re.kr/,

Tel:82-42-866-7181, Fax:82-42-860-4409)

Clones are derived from the chimpanzee BAC library RP-43 This BAC

end was generated during the R&amp;D process and may have higher chance

of clone tracking errors.

## PRIMERS

Sequencing: T U

## LIBRARY

Vector : pBACe3.6

R.Site 1 : EcoRI

R.Site 2 : EcoRI.

Location/Qualifiers

1. 20

/organism="Pan troglodytes"

/mol\_type="genomic DNA"

/db\_xref="taxon:9598"

/clones="RP43-088M10.TJ"

/sex="male"

/cell\_type="lymphocytes"

/clone\_lib="RP-43 Chimpanzee Male BAC Library"

## ORIGIN

```

Query Match      40.0%; Score 8.4; DB 9; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.9e+07;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

Qy 1 CTGGCGTATC 10

|||||

3 CTGGCGTATC 12

Db 3 CTGGCGTATC 12

## RESULT 28

AZ787920/c

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

source

ORIGIN

Query Match

Best Local Similarity

Matches

Qy

Db

FEATURES

source

ORIGIN

Query Match

Best Local Similarity

Matches

Qy

Db

FEATURES

source

ORIGIN

Query Match

Best Local Similarity

Matches

Qy

Db

FEATURES

source

ORIGIN

Query Match

Best Local Similarity

Matches

Qy

Db

FEATURES

source

ORIGIN

Query Match

Best Local Similarity

Matches

Qy

Db

FEATURES

source

ORIGIN

Query Match

Best Local Similarity

Matches

Qy

Db

FEATURES

source

ORIGIN

Query Match

Best Local Similarity

Matches

Qy

Db

FEATURES

source

ORIGIN

Query Match

Best Local Similarity

Matches

Qy

Db

FEATURES

source

ORIGIN

```

AZ787920      21 bp DNA linear GSS 16-FEB-2001
LOCUS      2M0034M09R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
DEFINITION      clone UUGC2M0034M09 R, genomic survey sequence.
ACCESSION      AZ787920
VERSION      AZ787920.1 GI:12927197
KEYWORDS      GSS.
SOURCE      Mus musculus (house mouse)
ORGANISM      Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 21)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
Niederhausern, A. and Wright, D. Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0034 row: M column: 09
Seq primer: CACACAGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 21.
Location/Qualifiers
1. 21
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0034M09"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (GI4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

```

AZ787920

Version

KeyWords

Source

Organism

Reference

Authors

Title

Journal

Comment

Features

Source

Origin

Query Match

Best Local Similarity

Matches

Qy

Db

Features

Source

Origin

Query Match

Best Local Similarity

Matches

Qy

Db

Features

Source

Origin

Query Match

Best Local Similarity

Matches

Qy

Db

Features

Source

Origin

Query Match

Best Local Similarity

Matches

Qy

Db

Features

Source

Origin

Query Match

Best Local Similarity

Matches

Qy

Db

Features

Source

Origin

Query Match

Best Local Similarity

Matches

Qy

Db

Features

Source

Origin

Query Match

Best Local Similarity

Matches

Qy

Db

Features

Source

Origin

Query Match

Best Local Similarity

Matches

Qy

Db

Features

Source

```

RESULT 29
CL694050
LOCUS
DEFINITION
    CL694050 13 bp DNA linear GSS 10-JUL-2004
    PR10163a.H11_2 - PR10163a.BR (13) Mixed stage fosmid library of P.
    pacificus var. California Pristionchus pacificus genomic, genomic
    survey sequence.
ACCESSION
    CL694050
VERSION
    GSS
KEYWORDS
    Pristionchus pacificus
SOURCE
    Pristionchus pacificus
    Pristionchus pacificus
    Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida;
    Neodiplogasteridae; Pristionchus.
REFERENCE
    1 (bases 1 to 13)
    Srinivasan,J., Otto,G.W., Kahlow,U., Geisler,R. and Sommer,R.J.
    AppaDB: an AcedB database for the nematode satellite organism
    Pristionchus pacificus
    Nucleic Acids Res. 32 (1), D421-D422 (2004)
JOURNAL
    Contact: Sommer RJ
COMMENT
    Evolutionary Biology
    Max-Planck-Institute for Developmental Biology
    Spemannstr. 37-39, Tuebingen D-72076, Germany
    Tel: 00497071601371
    Fax: 00497071601498
    Email: ralf.sommer@tuebingen.mpg.de
    This library was generated at Caltech, Pasadena, USA and end
    sequenced at Vancouver, Canada.
Seq primer: T7
Class: fosmid ends.
Location/Qualifiers
    1..13
    /organism="Pristionchus pacificus"
    /mol_type="genomic DNA"
    /strain="California"
    /db_xref="taxon:54126"
    /clone_lib="Mixed stage fosmid library of P. pacificus
    var. California"
    /note="Vector: pEpifos-5 Fosmid vector"

ORIGIN
Query Match 39.0%; Score 8.2; DB 9; Length 13;
Best Local Similarity 76.9%; Pred. No. 2.2e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTGGCGTATCTGA 13
    ||| |||||
Db 1 CTGCGTTATCTGA 13

RESULT 30
CL423467
LOCUS
DEFINITION
    CL423467 17 bp DNA linear GSS 16-MAR-2004
    01S0557-03A1-C12 UniformMu MutAIL Library Zea mays genomic clone
    01S0557-03A1-C12, genomic survey sequence.
ACCESSION
    CL423467
VERSION
    GSS
KEYWORDS
    Zea mays
SOURCE
    Zea mays
    Zea mays
    Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
    Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
    clade; Panicoideae; Andropogoneae; Zea.
    1 (bases 1 to 17)
    Lathshaw,S., Tan,B.-C., Settles,A.M. and McCarty,D.R.
    Sequence tagged transposon insertions from the UniformMu maize
    population
    Unpublished (2003)
    Contact: Donald R. McCarty
    Plant Molecular and Cellular Biology Program
    University of Florida
    PO 110690 Gainesville, FL 32611-0690, USA
    Tel: 352-392-1928 x322
    Email: drmc@ufl.edu

ORIGIN
Query Match 39.0%; Score 8.2; DB 9; Length 18;
Best Local Similarity 76.9%; Pred. No. 2.3e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 8 ATCTGAAGAGTCT 20
    ||||| |||||
Db 2 ATCTGGACAGTTT 14

RESULT 31
AJ662026
LOCUS
DEFINITION
    AJ662026 CSEQRAN09 Sus scrofa cDNA clone C000023_015, mRNA
    sequence.
ACCESSION
    AJ662026
VERSION
    AJ662026.1 GI:49346149
KEYWORDS
    EST.
SOURCE
    Sus scrofa (pig)
    Sus scrofa
    ORGANISM
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
    1 (bases 1 to 18)
    Anderson,S.I., Finlayson,H.A. and Archibald,A.L.
    Development of cDNA and EST resources for studying reproduction and
    embryo development in pigs and cattle
    Unpublished (2004)
    Contact: Anderson SI
    Genomics and Bioinformatics
    Roslin Institute
    Roslin, Midlothian, EH25 9PS, UNITED KINGDOM
    Single pass sequencing. Bases called and trimmed with phred
    v0.020425.c. Vector identified by cross match with the -minscore 20
    and -mismatch 12 options. Vector:pBlueScriptII(KS+) R. Site 1;
    EcoRI R. Site 2: NotI Description: Normalised library constructed
    from pooled tissue from day 30 placentas. Clones available from UK
    Centre for Functional Genomics in Farm Animals, Roslin Institute,
    Roslin, Midlothian, UK, EH25 9PS, www.arkgenomics.org.
    1..18
    /organism="Sus scrofa"
    /mol_type="mRNA"
    /db_xref="taxon:9823"
    /clone="C0000023_015"
    /tissue_type="placenta"
    /clone_lib="CSEQRAN09"
    /note="Vector: pBlueScriptII(KS+); Site 1: EcoRI; Site 2:
    NotI; Single pass sequencing. Normalised library
    constructed from pooled tissue from day 30 placentas."

ORIGIN
Query Match 39.0%; Score 8.2; DB 1; Length 18;
Best Local Similarity 76.9%; Pred. No. 2.3e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

Sequence flanking probable Mu insertion site in UniformMu
line: 01S0557-03, Primer set: A
Class: transposon insertion site.
Location/Qualifiers
    1..17
    /organism="Zea mays"
    /mol_type="genomic DNA"
    /strains="W22 (ACR, bz1-m9)"
    /cultivar="UniformMu"
    /db_xref="taxon:4577"
    /clone="01S0557-03A1-C12"
    /clone_lib="UniformMu MutAIL Library"
    /note="Vector: TOPO-PCR4; DNA flanking Mu transposon
    insertions in Mu inactive lines were extracted from the
    UniformMu maize population by the thermo asymmetric
    interlaced PCR (TAIL) protocol using primers specific for
    the Mu terminal inverted repeat and a set of 16 arbitrary
    primers. Amplicons were size enriched using Sepharose 400
    spin columns and cloned into the TOPO PCR4 vector."

```

## FEATURES

source

## ORIGIN

```

Query Match 39.0%; Score 8.2; DB 9; Length 17;
Best Local Similarity 76.9%; Pred. No. 2.3e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

QY 8 ATCTGAAGAGTCT 20

Db 2 ATCTGGACAGTTT 14

## FEATURES

source

## ORIGIN

```

Query Match 39.0%; Score 8.2; DB 1; Length 18;
Best Local Similarity 76.9%; Pred. No. 2.3e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```



```

Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 3 GCGTATCTGAAG 15
    |||||
Db 2 GCGTCTTTGGAG 14
    |||||

RESULT 32
AJ588865
LOCUS
DEFINITION
Arabidopsis thaliana T-DNA flanking sequence, right border, clone
539G02, genomic survey sequence.
ACCESSION
AJ588865
VERSION
AJ588865.1 GI:37938489
KEYWORDS
GSS; right border; T-DNA flanking sequence.
SOURCE
Arabidopsis thaliana (thale cress)
ORGANISM
Arabidopsis thaliana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsi.
1
REFERENCE
AUTHORS
Brunaud V., Balzerque S., Dubreucq B., Aubourg S., Samson F.,
Chauvin S., Bechtold N., Cruaud C., DeRose R., Pelletier G.,
Lepiniec L., Caboche M. and Lecharny A.
T-DNA integration into the Arabidopsis genome depends on sequences
of pre-insertion sites
EMBO Rep. 3 (12), 1152-1157 (2002)
22363535
MEDLINE
12446565
PUBMED
12446565
REFERENCE
2 (bases 1 to 18)
Balzerque S.
Direct Submission
Submitted (23-OCT-2003) Balzerque S., UMRGV, INRA/CNRS, 2 rue
Gaston Cremieux, 91057 Evry cedex, FRANCE
COMMENT
PCR was performed on DNA from transformants of Arabidopsis thaliana.
plants from INRA (Versailles). The DNA fragment(s) resulting from
the PCR were directly sequenced from the left or the right border
to determine the genomic sequence flanking the insertion. T-DNA
derived sequences were removed. Information to order the
corresponding mutant line and a link to a database providing a
graphical display of the insertion site are available at
http://dbsgap.versailles.inra.fr/publiclines/. This sequence has
been generated in the framework of the French plant genomics
program 'Genoplante' (http://www.genoplante.com and
http://genoplante-info.infobiogen.fr).
FEATURES
Location/Qualifiers
1..18
/organism="Arabidopsis thaliana"
/mol_type="genomic DNA"
/cultivar="Massillewskija"
/db_xref="taxon:3702"
/clone="539G02"
misc_feature
1..18
/notes="T-DNA flanking sequence
right border"
ORIGIN
Query Match 39.0%; Score 8.2; DB 9; Length 18;
Best Local Similarity 76.9%; Pred. No. 2.3e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 8 ATCTGAGAGTCT 20
    |||||
Db 4 ATCTGATGGCCT 16
    |||||

RESULT 33
AJ588865/c
LOCUS
DEFINITION
1M0101K12F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0101K12 F, genomic survey sequence.
ACCESSION
AJ588865

```

```

VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
FEATURES
source
1..19
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0101K12"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 Kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
ORIGIN
Query Match 39.0%; Score 8.2; DB 8; Length 19;
Best Local Similarity 76.9%; Pred. No. 2.3e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 9 TCTGAGAGTCTG 21
    |||||
Db 19 TGTGAGGAGTGTG 7
    |||||

RESULT 34
BQ595520
LOCUS
DEFINITION
BQ595520
ACCESSION
BQ595520

```

```

AZ358656.1 GI:10472356
GSS.
Mus musculus (house mouse)
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 19)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
Reilly, M., Rose, R., Stokes, R., Tingey, A., von
Niederhausern, A. and Wright, D. Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0101 row: K column: 12
Seq primer: CGTGTAAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
1..19
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0101K12"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 Kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
ORIGIN
Query Match 39.0%; Score 8.2; DB 8; Length 19;
Best Local Similarity 76.9%; Pred. No. 2.3e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 9 TCTGAGAGTCTG 21
    |||||
Db 19 TGTGAGGAGTGTG 7
    |||||

RESULT 34
BQ595520
LOCUS
DEFINITION
BQ595520
ACCESSION
BQ595520

```

**VERSION** BQ595520.1 GI:26125103  
**KEYWORDS** EST.  
**SOURCE** Beta vulgaris  
**ORGANISM** Beta vulgaris  
  
**REFERENCE**  
**AUTHORS** Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Caryophyllales; Amaranthaceae; Beta.  
1 (bases 1 to 20)  
Drungewski, M., Stahl, D., Wruck, W., Menze, A., O'Brien, J., Lehrach, H. and Radelof, U., Schulz, B., Weisshaar, B., Hennig, S., Steinfath, M., Herwig, R., Schulz, B., Wruck, W., Menze, A., O'Brien, J., Lehrach, H.  
**TITLE** Construction of a 'unigene' cDNA clone set by oligonucleotide fingerprinting allows access to 25 000 potential sugar beet genes  
**JOURNAL** Plant J. 32 (5), 845-857 (2002)  
**MEDLINE** 22362189  
**PUBMED** 12472698  
**COMMENT** Contact: Weishaar B  
ADIS DNA core facility at MPIZ  
Max-Planck-Institute for Plant Breeding Research  
Carl-von-Linne Weg 10, 50829 Koeln, Germany  
Fax: 00492215062851  
Email: weishaar@mpiz-koeln.mpg.de  
Insert Length: 20 Std Error: 0.00  
Plate: 22 row: L column: 12  
Seq primer: SP6; CATACGATTTAGTGACACTATAG.  
  
**FEATURES**  
**source**  
1..20  
Location/Qualifiers  
/organism="Beta vulgaris"  
/mol\_type="mrna"  
/cultivar="KWS2320 (double haploid, monogerm breeding line)"  
/db\_xref="GABI:191330"  
/db\_xref="taxon:161934"  
/clone="024-022-L12"  
/tissue\_type="developing root"  
/lab\_host="EMDH10B"  
/clone\_lib="MPIZ-ADIS-024-developing root"  
/notes="Vector: pCMVSPORT6; Site 1: SalI; Site 2: NotI; cDNA library from sugar beet, library provided by KWS Kleinwanzlebener Saatzzucht AG Einbeck, Germany, contact: b.schulz@kws.de; cloning sites SalI-NotI, primer sites and orientation:  
SP6-Sali-CCACGCGTCGC-5prime-cDNA-polyA-CC-NotI-T7; Note: Sequencing granted in the context of the GABI-Beet Project, local PI: Dr. Katharina Schneider, coordinator: Prof. Christian Jung; Sequence submission managed by RZPD/GABI-Primary database: http://gabi.rzpd.de"  
  
**ORIGIN**  
Query Match 39.0%; Score 8.2; DB 5; Length 20;  
Best Local Similarity 76.9%; Pred. No. 2.3e+07;  
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 8 ATCTGAAGAGTCT 20  
|||||  
DB 5 ATCTCAATATCT 17  
  
**RESULT** 35  
**LOCUS** AZ320114  
**DEFINITION** 1M0040D05F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0040D05 F, genomic survey sequence.  
**ACCESSION** AZ320114  
**VERSION** AZ320114.1 GI:10371567  
**KEYWORDS** GSS.  
**SOURCE** Mus musculus (house mouse)  
**ORGANISM** Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 20)  
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
  
**REFERENCE**  
**AUTHORS**

Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0233 row: A column: 10  
 Seq primer: CACACAGAAACAGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 20.

FEATURES  
 source

1. .20  
 Location/Qualifiers  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0233A10"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Query Match 39.0%; Score 8.2; DB 8; Length 20;  
 Best Local Similarity 76.9%; Pred. No. 2.3e+07;  
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 TGGCGTATCTGAA 14  
 |||||  
 Db 5 TGGGATAGCTGAA 17

RESULT 37  
 AZ772787/c

LOCUS  
 DEFINITION  
 1M0583M24R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0583M24 R, genomic survey sequence.

ACCESSION  
 VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM  
 Mus musculus (house mouse)

REFERENCE  
 AUTHORS  
 1 (bases 1 to 20)  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,

Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0583 row: M column: 24  
 Seq primer: CACACAGAAACAGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 20.

FEATURES  
 source

1. .20  
 Location/Qualifiers  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0583M24"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Query Match 39.0%; Score 8.2; DB 8; Length 20;  
 Best Local Similarity 76.9%; Pred. No. 2.3e+07;  
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 9 TCTGAAGAGCTCTG 21  
 |||||  
 Db 13 TCTTAAGAGAGTG 1

RESULT 38  
 AZ807038

LOCUS  
 DEFINITION  
 2M0069C06R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC2M0069C06 R, genomic survey sequence.

ACCESSION  
 VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM  
 Mus musculus (house mouse)

REFERENCE  
 AUTHORS  
 1 (bases 1 to 20)  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,

Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: rdunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0069 row: C column: 06  
 Seq primer: CACACAGAAACAGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 20.

FEATURES  
 source  
 1..20  
 Location/Qualifiers  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC2M0069C06"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, Tl-resistant, P-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (g1.4732114[gblAP129072.1]), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN  
 Query Match 39.0%; Score 8.2; DB 8; Length 20;  
 Best Local Similarity 76.9%; Pred. No. 2.3e+07;  
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 GGCGTATCTGAAG 15  
 |||||  
 Db 8 GGCTGACCTGAAG 20

RESULT 39  
 CL436802 21 bp DNA linear GSS 18-MAR-2004  
 LOCUS  
 DEFINITION  
 PST3969-NR.Seq MICE1 Mus musculus genomic clone PST3869-NR.Seq similar to 682040202ORik, genomic survey sequence.

ACCESSION  
 CL436802  
 VERSION  
 CL436802.1 GI:45571964  
 KEYWORDS  
 GSS.  
 SOURCE  
 Mus musculus (house mouse)  
 ORGANISM  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 REFERENCE  
 1 (bases 1 to 21)  
 AUTHORS  
 Hicks,G.G.  
 TITLE  
 www.Escells.ca

# JOURNAL COMMENT

Unpublished (2002)  
 Contact: Hicks GG  
 Mammalian Functional Genomics Centre  
 Manitoba Institute of Cell Biology, University of Manitoba  
 ON5029, 675 McDermot Ave, Winnipeg, MB R3E 0V9, Canada  
 Tel: 204 787 2133  
 Fax: 204 787 2190  
 Email: hicksgg@cc.umanitoba.ca  
 U3NeosV1 gene trap. Tag generated by plasmid rescue. Additional sequence information and target gene cloning can be generated. ES cell line harboring insertion mutation of target gene is available. Sequence analysis available from  
 http://140.193.242.7/esdb/public\_search\_frame.php?PST-PST3869-NR.Se

Class: Gene Trap.  
 Location/Qualifiers  
 1..21  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="129 sv"  
 /db\_xref="taxon:10090"  
 /clone="PST3869-NR.Seq"  
 /sex="Male"  
 /cell\_type="Embryonic stem cell"  
 /cell\_line="D3H (J1 subclone)"  
 /clone\_lib="MICE1"  
 /note="Vector: U3NeosV1"

## ORIGIN

Query Match 39.0%; Score 8.2; DB 9; Length 21;  
 Best Local Similarity 61.9%; Pred. No. 2.3e+07;  
 Matches 13; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 CTGGCGTATCTGAAGAGTCTG 21  
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 Db 1 CTGGCTGCCCTTAAGGCATG 21

RESULT 40  
 BG927412/c  
 LOCUS  
 DEFINITION  
 HNC1-1-G11.R HNC (Human Normal Cartilage) Homo sapiens cDNA, mRNA sequence.

ACCESSION  
 BG927412  
 VERSION  
 BG927412.1 GI:14321935  
 KEYWORDS  
 EST.  
 SOURCE  
 Homo sapiens (human)

ORGANISM  
 Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 1 (bases 1 to 11)  
 Kumar,S., Connor,J.R., Dodds,R.A., Halsey,W., Van Horn,M., Mao,J., Sathe,G., Mui,P., Agarwal,P., Badger,A.M., Lee,J.C., Gowen,M. and Lark,M.W.

TITLE  
 Identification and initial characterization of 5000 expressed sequenced tags (ESTs) each from adult human normal and osteoarthritic cartilage cDNA libraries

JOURNAL  
 MEDLINE  
 21482651  
 PUBMED  
 11597177  
 COMMENT

Contact: Sanjay Kumar  
 UW2109  
 GlaxoSmithKline  
 709 Swedeland Road, P.O. Box 1539, King of Prussia, PA 19406, USA  
 Tel: 610-270-7245  
 Fax: 610-270-5598  
 Email: sanjay.kumar-l@gsk.com

Seq primer: T7  
 Location/Qualifiers

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 /mol\_type="mRNA"  
 /db\_xref="taxon:9606"

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/tissue_type="cartilage"
/lab_host="E.coli DH10 B"
/clone_lib="HNC (Human Normal Cartilage)"
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Directional"

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Query Match      38.1%; Score 8; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.7e+07;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 CTGGCGTA 8
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Search completed: August 12, 2005, 11:03:27  
Job time : 1812 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 10:33:19 ; Search time 1581 Seconds  
(without alignments)  
612.969 Million cell updates/sec

Title: US-09-743-825-10

Perfect score: 20

Sequence: 1 gaccgcagactcttcaga 20

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 790860

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

GenEmbl.\*

1: gb.ba.\*

2: gb.htg.\*

3: gb.in.\*

4: gb.om.\*

5: gb.ov.\*

6: gb.pat.\*

7: gb.ph.\*

8: gb.pl.\*

9: gb.pr.\*

10: gb.ro.\*

11: gb.sts.\*

12: gb.sy.\*

13: gb.un.\*

14: gb.vi.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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1	13.8	69.0	20	AR312275	Sequence
C 2	12.2	61.0	18	AR096404	Sequence
C 3	12.2	61.0	18	BD217452	Antisense
4	12	60.0	20	AR031072	Sequence
5	12	60.0	20	AR152833	Sequence
6	12	60.0	20	BD134289	Detection
C 7	11.8	59.0	17	AX735344	Sequence
8	11.8	59.0	17	AX759065	Sequence
9	11.8	59.0	18	A65727	Sequence
C 10	11.8	59.0	18	AR048183	Sequence
C 11	11.8	59.0	18	E10136	PCR primer
12	11.8	59.0	20	AR023697	Sequence
C 13	11.6	58.0	19	AX207008	Sequence
14	11.6	58.0	20	AX353519	Sequence
15	11.4	57.0	15	I61735	Sequence
16	11.4	57.0	15	AX636229	Sequence
C 17	11.4	57.0	17	AR111392	Sequence
C 18	11.4	57.0	17	AR364674	Sequence
C 19	11.4	57.0	17	AX734698	Sequence

C 20	11.4	57.0	19	6	AX130020	Sequence
C 21	11.4	57.0	19	6	AX130021	Sequence
22	11.4	57.0	20	6	AX269412	Sequence
23	11.4	57.0	20	6	AX270943	Sequence
24	11.2	56.0	18	6	AR292962	Sequence
C 25	11.2	56.0	19	6	AX378663	Sequence
26	11.2	56.0	20	6	AR072310	Sequence
C 27	11.2	56.0	20	6	AR123092	Sequence
28	11.2	56.0	20	6	CQ770343	Sequence
29	11.2	56.0	20	6	I26421	Sequence
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C 31	11.2	56.0	20	6	AR359611	Sequence
C 32	11.2	56.0	20	6	AR559459	Sequence
C 33	11.2	56.0	20	6	AX259854	Sequence
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C 39	11	55.0	18	6	AR567503	Sequence
C 40	11	55.0	18	6	AX277553	Sequence
C 41	11	55.0	18	6	AX418117	Sequence
42	11	55.0	19	6	AX816790	Sequence
43	11	55.0	20	6	E30865	Oligonucleo
44	11	55.0	20	6	E37662	Method for
45	11	55.0	20	6	I58336	Sequence
46	10.8	54.0	15	6	AR180134	Sequence
47	10.8	54.0	15	6	AR180675	Sequence
C 48	10.8	54.0	17	6	AX693268	Sequence
C 49	10.8	54.0	17	6	AX693269	Sequence
C 50	10.8	54.0	17	6	AX693270	Sequence
C 51	10.8	54.0	17	6	AX693271	Sequence
C 52	10.8	54.0	17	6	AX736308	Sequence
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57	10.8	54.0	20	6	BD176767	Method of
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C 59	10.6	53.0	17	6	A92171	Sequence
C 60	10.6	53.0	17	6	AR189852	Sequence
C 61	10.6	53.0	17	6	AR324840	Sequence
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C 63	10.6	53.0	17	6	AX226904	Sequence
C 64	10.6	53.0	17	6	AX761103	Sequence
C 65	10.6	53.0	17	6	BD009147	Herbicide
66	10.6	53.0	17	6	BD067559	Enzymatic
67	10.6	53.0	18	6	CQ786884	Sequence
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71	10.6	53.0	19	6	AR148621	Sequence
C 72	10.6	53.0	19	6	AR156552	Sequence
73	10.6	53.0	19	6	E26923	Vascular en
74	10.6	53.0	19	6	AR206672	Sequence
C 75	10.6	53.0	20	6	AR097061	Sequence
C 76	10.6	53.0	20	6	AR165231	Sequence
C 77	10.6	53.0	20	6	BD205208	Method of
78	10.6	53.0	20	6	BD231398	Isolated
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80	10.6	53.0	20	6	E47018	Simultaneo
81	10.6	53.0	20	6	AR201402	Sequence
82	10.6	53.0	20	6	AR225050	Sequence
C 83	10.6	53.0	20	6	AR252980	Sequence
C 84	10.6	53.0	20	6	AR264191	Sequence
C 85	10.6	53.0	20	6	AR297463	Sequence
C 86	10.6	53.0	20	6	AR336993	Sequence
C 87	10.6	53.0	20	6	AX118550	Sequence
C 88	10.6	53.0	20	6	AX459958	Sequence
C 89	10.6	53.0	20	6	AX777573	Sequence
C 90	10.4	52.0	15	6	I61736	Sequence
C 91	10.4	52.0	15	6	AX636230	Sequence
C 92	10.4	52.0	17	6	AX673751	Sequence

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C 94 10.4 52.0 17 6 AX693267 Sequence  
C 95 10.4 52.0 17 6 AX725386 Sequence  
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AX745406 Sequence

## ALIGNMENTS

RESULT 1  
LOCUS AR312275 20 bp DNA PAT 12-JUN-2003  
DEFINITION Sequence 2812 from patent US 6559294.  
ACCESSION AR312275  
VERSION AR312275.1 GI:31705701  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 20)  
AUTHORS Griffais, R., Hoiseth, S.K., Zagursky, R.J., Metcalf, B.J., Peek, J.A.,  
Sankaran, B. and Fletcher, L.D.  
TITLE Chlamydia pneumoniae polynucleotides and uses thereof  
JOURNAL Patent: US 6559294-A 2812 06-MAY-2003;  
FEATURES  
source Location/Qualifiers  
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## ORIGIN

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Qy 1 GACCGCATAGACTTCTC 17  
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Db 3 GACCGCATAACTTATC 19

RESULT 2  
AR096404/c  
LOCUS AR096404 18 bp DNA PAT 08-SEP-2000  
DEFINITION Sequence 75 from patent US 6007995.  
ACCESSION AR096404  
VERSION AR096404.1 GI:10025180  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Baker, B.F. and Cowsert, L.M.  
TITLE Antisense inhibition of TNFR1 expression  
JOURNAL Patent: US 6007995-A 75 28-DEC-1999;  
FEATURES  
source Location/Qualifiers  
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Qy 4 CGCATAGACTTCTCAGA 20  
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Db 18 CGCCCGAGTCTTCTCAGA 2

## RESULT 3

BD217452/c  
LOCUS BD217452 18 bp DNA PAT 17-JUL-2003  
DEFINITION Antisense modulation of TNFR1 expression.  
ACCESSION BD217452  
VERSION BD217452.1 GI:33027222  
KEYWORDS JP 2002519015-A/75.  
SOURCE unidentified  
ORGANISM unidentified.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Baker, B.F. and Cowsert, L.M.  
TITLE Antisense modulation of TNFR1 expression  
JOURNAL Patent: JP 2002519015-A 75 02-JUL-2002;  
COMMENT ISIS PHARMACEUTICALS INC  
OS Unidentified  
PN JP 2002519015-A/75  
PD 02-JUL-2002  
PF 17-JUN-1999 JP 2000557265  
PR 26-JUN-1998 US 09/106038  
PI BRENDA F BAKER, LEX M COWSERT  
PC  
C12N15/09, A61K31/7105, A61K31/711, A61K48/00, A61P29/00, A61P43/00, PC  
C12Q1/68,  
PC C12N15/00  
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Db 18 CGCCCGAGTCTTCTCAGA 2

RESULT 4  
AR031072  
LOCUS AR031072 20 bp DNA PAT 29-SEP-1999  
DEFINITION Sequence 60 from patent US 5861504.  
ACCESSION AR031072  
VERSION AR031072.1 GI:5944286  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 20)  
AUTHORS Polymeropoulos, M.H. and Merrill, C.R.  
TITLE Eleven highly informative microsatellite repeat polymorphic DNA  
JOURNAL Patent: US 5861504-A 60 19-JAN-1999;  
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Qy 1 GACCGCATAGACTTCTCAGA 20  
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Db 1 GACCCACAGCCTATTTCAGA 20

RESULT 5
LOCUS ARI152833
DEFINITION Sequence 113 from patent US 6235470.
ACCESSION ARI152833
VERSION ARI152833.1 GI:15120365
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE
AUTHORS Sidransky, D.
TITLE Detection of neoplasia by analysis of saliva
JOURNAL Patent: US 6235470-A 113 22-MAY-2001;
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source Location/Qualifiers
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Db 1 GACCCACAGCCTATTTCAGA 20

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LOCUS BD134289
DEFINITION Detection of neoplasia by analysis of saliva.
ACCESSION BD134289
VERSION BD134289.1 GI:23229234
KEYWORDS JP 2002505888-A/113.
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
AUTHORS Sidlanski, D.
TITLE Detection of neoplasia by analysis of saliva
JOURNAL Patent: JP 2002505888-A 113 26-FEB-2002;
COMMENT THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
OS Artificial Sequence
PN JP 2002505888-A/113
PD 26-FEB-2002
PF 10-MAR-1999 JP 2000535774
PR 10-MAR-1998 US 09/038637
PI DAVID SIDLANSKI
PC C12N15/09, C12Q1/68, C12N15/00
CC nucleotide
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Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCAGA 20
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Db 1 GACCCACAGCCTATTTCAGA 20

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LOCUS AX735344/c
DEFINITION Sequence 934 from Patent WO03025177.
ACCESSION AX735344
VERSION AX735344.1 GI:30514621
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
AUTHORS Telerman, A., Anson, R. and Tuijthinder, M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or resistance to viruses and the use
thereof as medicaments
JOURNAL Patent: WO 03025177-A 934 27-MAR-2003;
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source Location/Qualifiers
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Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Db 17 CATAAACTTCTCTGA 3

RESULT 8
LOCUS AX759065
DEFINITION Sequence 2386 from Patent WO03040369.
ACCESSION AX759065
VERSION AX759065.1 GI:32253681
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
AUTHORS Telerman, A., Anson, R. and Tuijthinder, M.
TITLE Sequences involved in tumoral suppression, tumoral reversion,
apoptosis and/or viral resistance phenomena and their use as
medicines
JOURNAL Patent: WO 03040369-A 2386 15-MAY-2003;
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QY 1 GACCGCATAGACTTCTC 15
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Db 1 GATCACATAGACTTCTC 15

RESULT 9
LOCUS A65727
DEFINITION Sequence 8 from Patent WO9735973.
PAT 29-MAR-1999
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ACCESSION      A65727
VERSION        A65727.1  GI:45311346
SOURCE         unidentified
ORGANISM       unidentified
REFERENCE      1
AUTHORS        Lenzen,G., Pietri-Rouxel,F., Drumare, Marie-Francoise and
               Strosberg,A.D. AND beta 3-ADRENERGIC RECEPTORS AND USE THEREOF
TITLE          CANINE beta 2- AND beta 3-ADRENERGIC RECEPTORS AND USE THEREOF
JOURNAL        VETIGEN (FR)
COMMENT        Patent: WO 975973-A 8 02-OCT-1997;
               Other publication FR 2746813 19971003.
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DEFINITION    Sequence 1 from patent US 5821062.
ACCESSION     AR048183
VERSION       AR048183.1  GI:5970526
KEYWORDS      Unknown.
SOURCE        Unknown.
ORGANISM      Unclassified.
REFERENCE     1 (bases 1 to 18)
AUTHORS       Komai,K., Kaneko,H. and Nakatsuka,I.
TITLE         Oligonucleotide for use in checking presence or absence of mutation
               in human-derived cytochrome P450IIC18 gene
JOURNAL       Patent: US 5821062-A 1 13-OCT-1998;
FEATURES      Location/Qualifiers
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Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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Db            16 CATAGACTTTTGAGA 2
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DEFINITION    PCR primer to amplify mutated genes encoding human cytochrome
               P450IIC18.
ACCESSION     E10136
VERSION       E10136.1  GI:22026764
KEYWORDS      JP 1995285987-A/1.
SOURCE        unidentified
ORGANISM      unidentified.
REFERENCE     1 (bases 1 to 18)
AUTHORS       Komai,K., Kaneko,H. and Nakatsuka,I.
TITLE         OLIGONUCLEOTIDE FOR AMPLIFYING MUTATION TYPE GENE OF HUMAN DERIVED
CYTOCHROME P450IIC18
Patent: JP 1995285987-A 1 31-OCT-1995;
SUMITOMO CHEM CO LTD
OS            None
OC            Artificial sequences.
PN            JP 1995285987-A/1
PD            31-OCT-1995
PF            29-MAR-1994 JP 1994059386
PI            KOMAI KOICHIRO, KANEKO HIDEO, NAKATSUKA IWAO
PC            C07H21/04,C12Q1/68//C12N15/09;
CC            strandedness: Single;
CG            topology: Linear;
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Db            16 CATAGACTTTTGAGA 2
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LOCUS         AR023697
DEFINITION    Sequence 8 from patent US 5795722.
ACCESSION     AR023697
VERSION       AR023697.1  GI:3976991
KEYWORDS      Unknown.
SOURCE        Unknown.
ORGANISM      Unclassified.
REFERENCE     1 (bases 1 to 20)
AUTHORS       Lacroix,J.-M. and Dunn,J.M.
TITLE         Method and kit for quantitation and nucleic acid sequencing of
               nucleic acid analytes in a sample
JOURNAL       Patent: US 5795722-A 8 18-AUG-1998;
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Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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Db            3 GCATRAACTTCTGAG 17
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DEFINITION    Sequence 31 from Patent WO0155214.
ACCESSION     AX207008
VERSION       AX207008.1  GI:15394779
KEYWORDS      Homo sapiens (human)
SOURCE        Homo sapiens
ORGANISM      Homo sapiens
               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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REFERENCE 1
AUTHORS Whittaker,P.A., Jones,S.J. and Hanley,M.T.
TITLE Disease-associated gene
JOURNAL Patent: WO 0155214-A 31.02-AUG-2001;
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Query Match 58.0%; Score 11.6; DB 6; Length 19;
Best Local Similarity 77.8%; Pred. No. 1.5e+05;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GACGGCATAGACTTCTCA 18
Db 18 GACGGCAGCGACATCTCA 1

RESULT 14
AX353519
LOCUS AX353519 20 bp DNA linear PAT 06-FEB-2002
DEFINITION Sequence 51 from Patent WO0204636.
ACCESSION AX353519
VERSION AX353519.1 GI:18618594
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.

REFERENCE 1
AUTHORS van Roy,F., Goossens,S., Janssens,B. and Vanpoucke,G.
TITLE Novel_g(a) expressed in heart and testis
JOURNAL Patent: WO 0204636-A 31.17-JAN-2002;
FEATURES
    source
        1. .20
            /organism="synthetic construct"
            /mol_type="unassigned DNA"
            /db_xref="taxon:32630"
            /note="upper primer FVR2521"

ORIGIN
Query Match 58.0%; Score 11.6; DB 6; Length 20;
Best Local Similarity 77.8%; Pred. No. 1.5e+05;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GACGGCATAGACTTCTCA 18
Db 2 GACTGNACAGCGTCTTCA 19

RESULT 15
I61735
LOCUS I61735 15 bp DNA linear PAT 07-OCT-1997
DEFINITION Sequence 289 from patent US 5658780.
ACCESSION I61735
VERSION I61735.1 GI:2479683
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 15)
AUTHORS Stinchcomb,D.T., Draper,K.G. and McSwiggen,J.
TITLE Rel a targeted ribozymes
JOURNAL Patent: US 5658780-A 289 19-AUG-1997;
FEATURES
    source
        1. .15
            /organism="unknown"
            /mol_type="unassigned DNA"

ORIGIN
Query Match 57.0%; Score 11.4; DB 6; Length 15;
Best Local Similarity 92.3%; Pred. No. 1.9e+05;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 ATAGACTTCTCAG 19
Db 13 ATAGAATTCTCAG 1

REFERENCE 1
AUTHORS Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Grimm,S., Direnzo,A., Karpeisky,A., Draper,K.G., Kisich,K., Matulic-Adamic,J., Mcswiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M., Suedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and Woolf,I.
TITLE Method and reagent for inhibiting the expression of disease related genes
JOURNAL Patent: EP 1260586-A 3368 27-NOV-2002;
FEATURES
    source
        1. .15
            /organism="unidentified"
            /mol_type="unassigned RNA"
            /db_xref="taxon:32644"

ORIGIN
Query Match 57.0%; Score 11.4; DB 6; Length 15;
Best Local Similarity 92.3%; Pred. No. 1.9e+05;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 ATAGACTTCTCAG 19
Db 1 ATGGACTTCTCAG 13

RESULT 17
AR111392/c
LOCUS AR111392 17 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 4 from patent US 6127133.
ACCESSION AR111392
VERSION AR111392.1 GI:12828240
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 17)
AUTHORS Akong,M.Anthony., Harpold,M.Miller., Velicelabi,G. and Brust,P.
TITLE Automated analysis equipment and assay method for detecting cell surface protein function using same
JOURNAL Patent: US 6127133-A 4 03-OCT-2000;
FEATURES
    source
        1. .17
            /organism="unknown"
            /mol_type="unassigned DNA"

ORIGIN
Query Match 57.0%; Score 11.4; DB 6; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.9e+05;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 ATAGACTTCTCAG 19
Db 13 ATAGAATTCTCAG 1

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RESULT 18  
 AR364674/c  
 LOCUS  
 DEFINITION Sequence 5 from patent US 5401629.  
 ACCESSION AR364674  
 VERSION AR364674.1 GI:34427598  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 17)  
 AUTHORS Harpold,M.M. and Brust,P.  
 TITLE Assay methods and compositions useful for measuring the transduction of an intracellular signal  
 JOURNAL Patent: US 5401629-A 5 28-MAR-1995;  
 FEATURES  
 source  
 1. .17  
 /organism="unknown"  
 /mol\_type="genomic DNA"  
 ORIGIN  
 Query Match 57.0%; Score 11.4; DB 6; Length 17;  
 Best Local Similarity 92.3%; Pred. No. 1.9e+05;  
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 7 ATAGACTTCTCAG 19  
 ||||| |||||  
 Db 13 ATAGAATTCTCAG 1  
 RESULT 19  
 AX734698/c  
 LOCUS  
 DEFINITION Sequence 288 from Patent WO03025177.  
 ACCESSION AX734698  
 VERSION AX734698.1 GI:30513975  
 KEYWORDS  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1  
 AUTHORS Telerman,A., Anson,R. and Tuijnder,M.  
 TITLE Sequences involved in phenomena of tumour suppression, tumour reversion, apoptosis and/or resistance to viruses and the use thereof as medicaments  
 JOURNAL Patent: WO 03025177-A 288 27-MAR-2003;  
 FEATURES  
 source  
 1. .17  
 /organism="Homo sapiens"  
 /mol\_type="unassigned DNA"  
 /db\_xref="taxon:9606"  
 ORIGIN  
 Query Match 57.0%; Score 11.4; DB 6; Length 17;  
 Best Local Similarity 92.3%; Pred. No. 1.9e+05;  
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 8 TAGACTTCTCAGA 20  
 ||||| |||||  
 Db 15 TAGAGTTCTCAGA 3  
 RESULT 20  
 AX130020/c  
 LOCUS  
 DEFINITION Sequence 1238 from Patent WO0130362.  
 ACCESSION AX130020  
 VERSION AX130020.1 GI:14136325  
 KEYWORDS  
 SOURCE Homo sapiens (human)

ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1  
 AUTHORS Robbins,J.M. and Tritz,R.  
 TITLE Ribozyme therapy for the treatment of proliferative skin and eye diseases  
 JOURNAL Patent: WO 0130362-A 1238 03-MAY-2001;  
 FEATURES  
 source  
 1. .19  
 /organism="Homo sapiens"  
 /mol\_type="unassigned DNA"  
 /db\_xref="taxon:9606"  
 /note="cdk-we-hu ribozyme binding site"  
 ORIGIN  
 Query Match 57.0%; Score 11.4; DB 6; Length 19;  
 Best Local Similarity 92.3%; Pred. No. 1.9e+05;  
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 5 GCATAGACTTCTC 17  
 ||||| |||||  
 Db 15 GCATATACTTCTC 3  
 RESULT 21  
 AX130021/c  
 LOCUS  
 DEFINITION Sequence 1239 from Patent WO0130362.  
 ACCESSION AX130021  
 VERSION AX130021.1 GI:14136326  
 KEYWORDS  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1  
 AUTHORS Robbins,J.M. and Tritz,R.  
 TITLE Ribozyme therapy for the treatment of proliferative skin and eye diseases  
 JOURNAL Patent: WO 0130362-A 1239 03-MAY-2001;  
 FEATURES  
 source  
 1. .19  
 /organism="Homo sapiens"  
 /mol\_type="unassigned DNA"  
 /db\_xref="taxon:9606"  
 /note="cdk-we-hu ribozyme binding site"  
 ORIGIN  
 Query Match 57.0%; Score 11.4; DB 6; Length 19;  
 Best Local Similarity 92.3%; Pred. No. 1.9e+05;  
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 5 GCATAGACTTCTC 17  
 ||||| |||||  
 Db 13 GCATATACTTCTC 1  
 RESULT 22  
 AX269412  
 LOCUS  
 DEFINITION Sequence 43 from Patent WO0164876.  
 ACCESSION AX269412  
 VERSION AX269412.1 GI:16542188  
 KEYWORDS  
 SOURCE Homo sapiens (human)  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1  
 AUTHORS Stefansson,H., Steinhorsdottir,V. and Gulcher,J.R.

```

TITLE      Human schizophrenia gene
JOURNAL    Patent: WO 0164876-A 43 07-SEP-2001;
           Decode Genetics EHP. (IS)
FEATURES   source
           Location/Qualifiers
           1..20
           /organism="Homo sapiens"
           /mol_type="unassigned DNA"
           /db_xref="taxon:9606"

ORIGIN
Query Match      57.0%; Score 11.4; DB 6; Length 20;
Best Local Similarity 92.3%; Pred. No. 1.9e+05;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      5 GCATAGACTTCTC 17
Db      6 GCATAGACTTCTC 18

RESULT 23
AX270943
LOCUS      AX270943      20 bp      DNA      linear      PAT 30-NOV-2001
DEFINITION Sequence 43 from Patent WO0164877.
ACCESSION  AX270943
VERSION     AX270943.1 GI:16543680
KEYWORDS    .
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS     Stefansson,H., Steinchoradottir,V. and Gulcher,J.R.
TITLE       Human schizophrenia gene
JOURNAL     Patent: WO 0164877-A 43 07-SEP-2001;
           Decode Genetics EHP. (IS)
FEATURES     source
           Location/Qualifiers
           1..20
           /organism="Homo sapiens"
           /mol_type="unassigned DNA"
           /db_xref="taxon:9606"

ORIGIN
Query Match      57.0%; Score 11.4; DB 6; Length 20;
Best Local Similarity 92.3%; Pred. No. 1.9e+05;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      5 GCATAGACTTCTC 17
Db      6 GCATAGACTTCTC 18

RESULT 24
AX292962
LOCUS      AR292962      18 bp      DNA      linear      PAT 12-JUN-2003
DEFINITION Sequence 4697 from patent US 6537751.
ACCESSION  AR292962
VERSION     AR292962.1 GI:31680246
KEYWORDS    .
SOURCE      Unknown.
ORGANISM    Unclassified.
            1 (bases 1 to 18)
            Cohen,D., Chumakov,I. and Blumenfeld,M.
            Biallelic markers for use in constructing a high density
            disequilibrium map of the human genome
            Patent: US 6537751-A 4697 25-MAR-2003;
            Location/Qualifiers
            1..18
            /organism="unknown"
            /mol_type="genomic DNA"

ORIGIN
Query Match      56.0%; Score 11.2; DB 6; Length 18;
Best Local Similarity 81.2%; Pred. No. 2.5e+05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      2 ACCGCATAGACTTCTC 17
Db      4 ACTGCAGGACTTCTC 19

TITLE      Human schizophrenia gene
JOURNAL    Patent: WO 0164876-A 43 07-SEP-2001;
           Decode Genetics EHP. (IS)
FEATURES   source
           Location/Qualifiers
           1..20
           /organism="Homo sapiens"
           /mol_type="unassigned DNA"
           /db_xref="taxon:9606"

ORIGIN
Query Match      57.0%; Score 11.4; DB 6; Length 20;
Best Local Similarity 92.3%; Pred. No. 1.9e+05;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      5 GCATAGACTTCTC 17
Db      6 GCATAGACTTCTC 18

RESULT 25
AX378663/c
LOCUS      AX378663      19 bp      DNA      linear      PAT 18-MAR-2002
DEFINITION Sequence 452 from Patent WO0206525.
ACCESSION  AX378663
VERSION     AX378663.1 GI:19574516
KEYWORDS    .
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
AUTHORS     Cohen,D., Blumenfeld,M., Chumakov,I., Abderrahim,H. and Bihain,B.
TITLE       Obesity associated biallelic marker maps
JOURNAL     Patent: WO 0206525-A 452 24-JAN-2002;
           GENSET (FR)
FEATURES     source
           Location/Qualifiers
           1..19
           /organism="Homo sapiens"
           /mol_type="unassigned DNA"
           /db_xref="taxon:9606"
           primer_bind
           1..19
           /note="downstream amplification primer 99-48212 for SEQ
           110, in complement"

ORIGIN
Query Match      56.0%; Score 11.2; DB 6; Length 19;
Best Local Similarity 81.2%; Pred. No. 2.5e+05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      5 GCATAGACTTCTCAGA 20
Db      17 GCATAAAGTCTCTGA 2

RESULT 26
AR072310
LOCUS      AR072310      20 bp      DNA      linear      PAT 28-AUG-2000
DEFINITION Sequence 113 from patent US 5948611.
ACCESSION  AR072310
VERSION     AR072310.1 GI:9999074
KEYWORDS    .
SOURCE      Unknown.
ORGANISM    Unclassified.
            1 (bases 1 to 20)
            Prockop,D.J., Ala-Kokko,L., Williams,C.J., Ritvaniemi,P.,
            Baldwin,C., Hopkinson,I. and Ahmad,N.Nina.
            Primers and methods for detecting mutations in the procollagen II
            gene (COL2A1) that indicate a genetic predisposition for a
            COL2AI-associated disease
            Patent: US 5948611-A 113 07-SEP-1999;
            Location/Qualifiers
            1..20
            /organism="unknown"
            /mol_type="unassigned DNA"

ORIGIN
Query Match      56.0%; Score 11.2; DB 6; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.5e+05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      2 ACCGCATAGACTTCTC 17
Db      4 ACTGCAGGACTTCTC 19

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RESULT 27
AR123092/c
LOCUS      AR123092      20 bp      DNA      linear      PAT 16-MAY-2001
DEFINITION Sequence 36 from patent US 6168950.
ACCESSION  AR123092
VERSION     AR123092.1  GI:14108058
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 20)
AUTHORS    Monia,B.P., Gaarde,W., Ward,D.T. and Cowseert,L.M.
TITLE      Antisense modulation of MEK1 expression
JOURNAL    Patent: US 6168950-A 36 02-JAN-2001;
FEATURES   Location/Qualifiers
            source
            1..20
            /organism="unknown"
            /mol_type="unassigned DNA"
ORIGIN
Query Match      56.0%; Score 11.2; DB 6; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.5e+05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      5 GCATAGACTTCTCAGA 20
        |||||
        19 GCATAGACTTCAGGA 4

RESULT 28
CQ770343
LOCUS      CQ770343      20 bp      DNA      linear      PAT 04-MAR-2004
DEFINITION Sequence 14 from Patent WO2004009842.
ACCESSION  CQ770343
VERSION     CQ770343.1  GI:45125013
KEYWORDS
SOURCE      Rattus sp.
ORGANISM    Rattus sp.
REFERENCE   1
AUTHORS    Larsen,L.K., Vrang,N. and Larsen,P.J.
TITLE      Methods for identifying genes related to malfunctions of the
JOURNAL    central nervous system
JOURNAL    Patent: WO 2004009842-A 14 29-JAN-2004;
FEATURES   Rheoscience A/S (DK)
            Location/Qualifiers
            source
            1..20
            /organism="Rattus sp."
            /db_xref="taxon:10118"
ORIGIN
Query Match      56.0%; Score 11.2; DB 6; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.5e+05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      2 ACCGCATAGACTTCTC 17
        |||||
        5 ACCGCACAGCCTTGTC 20

RESULT 29
I26421
LOCUS      I26421      20 bp      DNA      linear      PAT 07-OCT-1996
DEFINITION Sequence 113 from patent US 5558988.
ACCESSION  I26421
VERSION     I26421.1  GI:1606291
KEYWORDS
SOURCE      Unknown.

ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 20)
AUTHORS    Prockop,D.J., Ala-Kokko,L. and Ritvaniemi,P.
TITLE      Primers and methods for detecting mutations in the procollagen II
JOURNAL    gene that indicate a genetic predisposition for osteoarthritis
JOURNAL    Patent: US 5558988-A 113 24-SEP-1996;
FEATURES   Location/Qualifiers
            source
            1..20
            /organism="unknown"
            /mol_type="unassigned DNA"
ORIGIN
Query Match      56.0%; Score 11.2; DB 6; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.5e+05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      2 ACCGCATAGACTTCTC 17
        |||||
        4 ACTGCAGGAGCTTCTC 19

RESULT 30
AR313207/c
LOCUS      AR313207      20 bp      DNA      linear      PAT 12-JUN-2003
DEFINITION Sequence 3744 from patent US 6559294.
ACCESSION  AR313207
VERSION     AR313207.1  GI:31706633
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 20)
AUTHORS    Griffais,R., Hoieth,S.K., Zagursky,R.J., Metcalf,B.J., Peek,J.A.,
TITLE      Sankaran,B. and Fletcher,L.D.
JOURNAL    Chlamydia pneumoniae polynucleotides and uses thereof
JOURNAL    Patent: US 6559294-A 3744 06-MAY-2003;
FEATURES   Location/Qualifiers
            source
            1..20
            /organism="unknown"
            /mol_type="genomic DNA"
ORIGIN
Query Match      56.0%; Score 11.2; DB 6; Length 20;
Best Local Similarity 81.2%; Pred. No. 2.5e+05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      2 ACCGCATAGACTTCTC 17
        |||||
        20 ATCTCAGAGACTTCTC 5

RESULT 31
AR359611/c
LOCUS      AR359611      20 bp      DNA      linear      PAT 17-AUG-2003
DEFINITION Sequence 204 from patent US 6593305.
ACCESSION  AR359611
VERSION     AR359611.1  GI:33766334
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 20)
AUTHORS    Wright,J.A.
TITLE      Antitumor antisense sequences directed against R1 and R2 components
JOURNAL    of ribonucleotide reductase
JOURNAL    Patent: US 6593305-A 204 15-JUL-2003;
FEATURES   Location/Qualifiers
            source
            1..20
            /organism="unknown"
            /mol_type="genomic DNA"
ORIGIN
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Query Match  
Best Local Similarity 56.0%; Score 11.2; DB 6; Length 20;  
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 CGCAGACTTCTCAG 19  
Db 20 CGCAGACTTCTCAG 5

RESULT 32  
AR559459/c  
LOCUS AR559459 20 bp DNA linear PAT 08-OCT-2004  
DEFINITION Sequence 28 from patent US 6750019.  
ACCESSION AR559459  
VERSION AR559459.1 GI:53968875  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 20)  
AUTHORS Freier,S.M.  
TITLE Antisense modulation of insulin-like growth factor binding protein  
JOURNAL 5 expression  
FUNDING Patent: US 6750019-A 28 15-JUN-2004;  
FEATURES  
source Location/Qualifiers  
1..20  
/organism="unknown"  
/mol\_type="genomic DNA"

ORIGIN  
Query Match 56.0%; Score 11.2; DB 6; Length 20;  
Best Local Similarity 81.2%; Pred. No. 2.5e+05;  
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GACCGCATGACTTCT 16  
Db 17 GACCGCATGACTTCT 2

RESULT 33  
AX259854/c  
LOCUS AX259854 20 bp DNA linear PAT 26-OCT-2001  
DEFINITION Sequence 81 from Patent WO0172822.  
ACCESSION AX259854  
VERSION AX259854.1 GI:16508928  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1  
AUTHORS Hugot,J.P., Thomas,G., Zouali,M., Lesage,S. and Chamaillard,M.  
TITLE Genes involved in intestinal inflammatory diseases and use thereof  
JOURNAL Patent: WO 0172822-A 81 04-OCT-2001;  
FUNDING Fondation Jean Dausset-Ceph (FR)

FEATURES  
source Location/Qualifiers  
1..20  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"

ORIGIN  
Query Match 56.0%; Score 11.2; DB 6; Length 20;  
Best Local Similarity 81.2%; Pred. No. 2.5e+05;  
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTCAGA 20  
Db 17 GCAGGCGCTTCTCAGA 2

RESULT 34  
AX259855/c  
LOCUS AX259855 20 bp DNA linear PAT 26-OCT-2001  
DEFINITION Sequence 82 from Patent WO0172822.  
ACCESSION AX259855  
VERSION AX259855.1 GI:16508929  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1  
AUTHORS Hugot,J.P., Thomas,G., Zouali,M., Lesage,S. and Chamaillard,M.  
TITLE Genes involved in intestinal inflammatory diseases and use thereof  
JOURNAL Patent: WO 0172822-A 82 04-OCT-2001;  
FUNDING Fondation Jean Dausset-Ceph (FR)

FEATURES  
source Location/Qualifiers  
1..20  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"

ORIGIN  
Query Match 56.0%; Score 11.2; DB 6; Length 20;  
Best Local Similarity 81.2%; Pred. No. 2.5e+05;  
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTCAGA 20  
Db 17 GCAGGCGCTTCTCAGA 2

RESULT 35  
BD254799  
LOCUS BD254799 17 bp DNA linear PAT 17-JUL-2003  
DEFINITION Regulation of repressor genes using nucleic acid molecules.  
ACCESSION BD254799  
VERSION BD254799.1 GI:33064569  
KEYWORDS JP 2002541795-A/2592.  
SOURCE unidentified  
ORGANISM unidentified  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.  
TITLE Regulation of repressor genes using nucleic acid molecules  
JOURNAL Patent: JP 2002541795-A 2592 10-DEC-2002;  
COMMENT RIBOZYME PHARMACEUTICALS INC  
OS Eukaryote  
PN JP 2002541795-A/2592  
PD 10-DEC-2002  
PF 11-APR-2000 JP 2000611654  
PR 12-APR-1999 US 60/129390  
PI LAWRENCE BLATT,MICHAEL ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC  
C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10, PC  
C12P21/02,  
PC C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1:91),(C12P21/02, PC  
C12R1:91),  
PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,  
PC A61K37/02,  
PC (C12N5/00,C12R1:91)  
CC Regulation of repressor genes using nucleic acid molecules FH  
Key Location/Qualifiers  
FT source 1..17  
/organism="Eukaryote".  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32644"

FEATURES  
source Location/Qualifiers  
1..17  
/organism="unassigned DNA"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:32644"

ORIGIN  
Query Match 55.0%; Score 11; DB 6; Length 17;  
Best Local Similarity 100.0%; Pred. No. 3.3e+05;  
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      10 GACTTCTCAGA 20
Db      5 GACTTCTCAGA 15

RESULT 36
BD254800
LOCUS   BD254800                17 bp    DNA        linear    PAT 17-JUL-2003
DEFINITION
Regulation of repressor genes using nucleic acid molecules.
ACCESSION
BD254800
VERSION
BD254800.1 GI:33064570
KEYWORDS
JP 2002541795-A/2593.
SOURCE  unidentified
ORGANISM
unclassified.
REFERENCE
1 (bases 1 to 17)
AUTHORS
Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
TITLE
Regulation of repressor genes using nucleic acid molecules
JOURNAL
Patent: JP 2002541795-A 2593 10-DEC-2002;
RIBOZYME PHARMACEUTICALS INC
COMMENT
OS Eukaryote
PN JP 2002541795-A/2593
PD 10-DEC-2002
PE 11-APR-2000 JP 2000611654
PR 12-APR-1999 US 60/129390
PI LAWRENCE BLATT,MICHAEL,ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC
C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10, PC
C12P21/02,
PC
C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1:91),(C12P21/02, PC
C12R1:91),
PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,
PC A61K37/02,
PC (C12N5/00,C12R1:91)
CC Regulation of repressor genes using nucleic acid molecules FH
Key Location/Qualifiers
FT source 1..17
FT /organism='Eukaryote'.

FEATURES
source
1..17
Location/Qualifiers
/organism='unidentified'
/mol_type='genomic DNA'
/db_xref='taxon:32644'

ORIGIN
Query Match 55.0%; Score 11; DB 6; Length 17;
Best Local Similarity 100.0%; Pred. No. 3.3e+05;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      10 GACTTCTCAGA 20
Db      2 GACTTCTCAGA 12

RESULT 38
AX110604
LOCUS   AX110604                17 bp    DNA        linear    PAT 29-MAY-2002
DEFINITION
Sequence 1337 from Patent WO0123604.
ACCESSION
AX110604
VERSION
AX110604.1 GI:13926896
KEYWORDS
synthetic construct
SOURCE
synthetic construct
ORGANISM
other sequences; artificial sequences.
REFERENCE
1
AUTHORS
Bergeron,M.G., Boissinot,M., Huletsky,A., m Nard,C., Quellet,M.,
Picard,F.J. and Roy,P.H.
TITLE
Highly conserved genes and their use to generate probes and primers
for detection of microorganisms
JOURNAL
Patent: WO 0123604-A 1337 05-APR-2001;
Infectio Diagnostic (I.D.I.) INC. (CA)
FEATURES
Location/Qualifiers
source
1..17
/organism='synthetic construct'
/mol_type='unassigned DNA'
/db_xref='taxon:32630'
/note='Oligonucleotide'

ORIGIN
Query Match 55.0%; Score 11; DB 6; Length 17;
Best Local Similarity 100.0%; Pred. No. 3.3e+05;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      9 AGACTTCTCAG 19
Db      4 AGACTTCTCAG 14

RESULT 39
AR567503/c
LOCUS   AR567503                18 bp    DNA        linear    PAT 08-OCT-2004
DEFINITION
Sequence 32 from patent US 6780609.
ACCESSION
AR567503
VERSION
AR567503.1 GI:53985285
KEYWORDS
Unknown.
SOURCE

```

```

PF 11-APR-2000 JP 2000611654
PR 12-APR-1999 US 60/129390
PI LAWRENCE BLATT,MICHAEL,ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC
C12N15/09,A61K38/00,A61K48/00,A61P43/00,A61P43/00,C12N5/10, PC
C12P21/02,
PC
C12P21/02,C12P21/02//A61K31/711,(C12N5/10,C12R1:91),(C12P21/02, PC
C12R1:91),
PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,
PC A61K37/02,C12R1:91)
PC (C12N5/00,C12R1:91)
CC Regulation of repressor genes using nucleic acid molecules FH
Key Location/Qualifiers
FT source 1..17
FT /organism='Eukaryote'.

FEATURES
source
1..17
Location/Qualifiers
/organism='unidentified'
/mol_type='genomic DNA'
/db_xref='taxon:32644'

ORIGIN

```



ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Carulli,J.P., Little,R.D., Recker,R.R. and Johnson,M.L.  
TITLE High bone mass gene of 11q13.3  
JOURNAL Patent: US 6780609-A 32 24-AUG-2004;  
FEATURES  
source 1. .18  
/organism="unknown"  
/mol\_type="genomic DNA"

ORIGIN

Query Match 55.0%; Score 11; DB 6; Length 18;  
Best Local Similarity 100.0%; Pred. No. 3.3e+05;  
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 GACTTCTCAGA 20  
|||||  
Db 17 GACTTCTCAGA 7

RESULT 40  
AX277553/c  
LOCUS AX277553 18 bp DNA linear PAT 01-NOV-2001  
DEFINITION Sequence 32 from Patent WO0177327.  
ACCESSION AX277553  
VERSION AX277553.1 GI:16604752  
KEYWORDS  
SOURCE synthetic construct  
ORGANISM synthetic construct  
REFERENCE 1  
AUTHORS Carulli,J.P., Little,R.D., Recker,R.R. and Johnson,M.L.  
TITLE the high bone mass gene of 11q13.3  
JOURNAL Patent: WO 0177327-A 32 18-OCT-2001;  
Genome Therapeutics Corporation (US)  
FEATURES  
source 1. .18  
/organism="synthetic construct"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32630"  
/note="Artificial sequence is a primer."

ORIGIN

Query Match 55.0%; Score 11; DB 6; Length 18;  
Best Local Similarity 100.0%; Pred. No. 3.3e+05;  
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 GACTTCTCAGA 20  
|||||  
Db 17 GACTTCTCAGA 7

Search completed: August 12, 2005, 11:41:58  
Job time : 1586 secs

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 10:07:08 ; Search time 238 Seconds  
(without alignments)  
497.457 Million cell updates/sec

Title: US-09-743-825-10

Perfect score: 20

Sequence: 1 gaccgcgatgactcttcaga 20

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 2207178

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

N Geneseq\_16Dec04:\*  
1: Geneseqn1980s:\*  
2: Geneseqn1990s:\*  
3: Geneseqn2000s:\*  
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5: Geneseqn2001bs:\*  
6: Geneseqn2002as:\*  
7: Geneseqn2002bs:\*  
8: Geneseqn2003as:\*  
9: Geneseqn2003bs:\*  
10: Geneseqn2003cs:\*  
11: Geneseqn2003ds:\*  
12: Geneseqn2004as:\*  
13: Geneseqn2004bs:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	3	Aaz50446 Human PB3
2	13.8	69.0	20	2	Aax93486 PCR prime
3	13.2	66.0	20	10	Aad62200 Human hae
4	12.6	63.0	20	13	Adt00440 Novel mut
5	12.4	62.0	17	8	ACA08287
6	12.4	62.0	17	8	ACA06680 NFKB sub-
7	12.2	61.0	18	3	Aaz48549 Human TNF
8	12.2	61.0	18	6	Abt05045 TNFR1 exp
9	12.2	61.0	18	13	Adr06077 Human TNF
10	12.2	61.0	19	10	ADG73193
11	12.2	61.0	19	10	ADL12249 Pseudomon
12	12.2	61.0	20	12	Adi79866 Mouse HMG
13	12.2	61.0	20	12	Adi79673 Mouse HMG
14	12.2	61.0	20	2	AAQ32840 Microbate
15	12.2	61.0	20	2	AAQ57863 Primer pa
16	12.2	61.0	20	2	AAZ21763 Exemplary
17	12.2	61.0	20	3	AAC60963 TATA box-
18	11.8	59.0	17	10	ADB42063 Tumour su
19	11.8	59.0	17	10	ADI48431 Human tum
20	11.8	59.0	18	2	AAQ94315 Human cyt

18	2	AAV30475	59.0	11.8	21
20	2	AAV33985	59.0	11.8	22
20	3	AAZ24116	59.0	11.8	23
20	10	ABZ91284	59.0	11.8	24
20	11	ABD27514	59.0	11.8	25
19	4	ADL11750	58.0	11.6	26
20	6	ABK41518	58.0	11.6	27
20	6	ABS59713	58.0	11.6	28
20	12	ADK78853	58.0	11.6	29
20	12	ADK78852	58.0	11.6	30
15	2	AAZ55168	57.0	11.4	31
17	8	ACA09062	57.0	11.4	32
17	10	ADI47785	57.0	11.4	33
19	3	AAA83653	57.0	11.4	34
19	3	AAH83652	57.0	11.4	35
19	5	AAH58814	57.0	11.4	36
19	5	AAH58815	57.0	11.4	37
19	5	AAH58816	57.0	11.4	38
19	12	ADQ61886	57.0	11.4	39
20	2	AAZ77133	57.0	11.4	40
20	4	AAK95244	57.0	11.4	41
20	4	AAK95245	57.0	11.4	42
20	4	AAK95246	57.0	11.4	43
20	4	AAK95247	57.0	11.4	44
20	4	AAK95248	57.0	11.4	45
20	6	ABT00014	57.0	11.4	46
20	6	ABT01507	57.0	11.4	47
20	12	ADI29181	57.0	11.4	48
20	12	ADI29182	57.0	11.4	49
20	12	ADH77528	57.0	11.4	50
20	12	ADH77529	57.0	11.4	51
20	12	ADH77530	57.0	11.4	52
20	12	ADH77531	57.0	11.4	53
20	12	ADH77532	57.0	11.4	54
20	12	ADH77533	57.0	11.4	55
20	12	ADH77534	57.0	11.4	56
20	12	ADH77535	57.0	11.4	57
20	12	ADH77536	57.0	11.4	58
20	12	ADH77537	57.0	11.4	59
20	12	ADH77538	57.0	11.4	60
20	12	ADH77539	57.0	11.4	61
20	12	ADH77540	57.0	11.4	62
20	12	ADH77541	57.0	11.4	63
20	12	ADH77542	57.0	11.4	64
20	12	ADH77543	57.0	11.4	65
20	12	ADH77544	57.0	11.4	66
20	12	ADH77545	57.0	11.4	67
20	12	ADH77546	57.0	11.4	68
20	12	ADH77547	57.0	11.4	69
20	12	ADH77548	57.0	11.4	70
20	12	ADH77549	57.0	11.4	71
20	12	ADH77550	57.0	11.4	72
20	12	ADH77551	57.0	11.4	73
20	12	ADH77552	57.0	11.4	74
20	12	ADH77553	57.0	11.4	75
20	12	ADH77554	57.0	11.4	76
20	12	ADH77555	57.0	11.4	77
20	12	ADH77556	57.0	11.4	78
20	12	ADH77557	57.0	11.4	79
20	12	ADH77558	57.0	11.4	80
20	12	ADH77559	57.0	11.4	81
20	12	ADH77560	57.0	11.4	82
20	12	ADH77561	57.0	11.4	83
20	12	ADH77562	57.0	11.4	84
20	12	ADH77563	57.0	11.4	85
20	12	ADH77564	57.0	11.4	86
20	12	ADH77565	57.0	11.4	87
20	12	ADH77566	57.0	11.4	88
20	12	ADH77567	57.0	11.4	89
20	12	ADH77568	57.0	11.4	90
20	12	ADH77569	57.0	11.4	91
20	12	ADH77570	57.0	11.4	92
20	12	ADH77571	57.0	11.4	93

94 11.2 56.0 20 12 ADL27440 PCR prime  
 AAZ50446 Aaf02601 Hammerhea  
 95 11 55.0 17 3 AAF02601  
 Aaf02603 Hammerhea  
 96 11 55.0 17 3 AAF02602  
 Aaf02602 Hammerhea  
 97 11 55.0 17 3 AAF02602  
 Aah01346 parC res1  
 98 11 55.0 17 4 AAH01346  
 99 11 55.0 18 5 ABA82646 Human Zma  
 C 100 11 55.0 18 5 ABA82604 HBM1 poly

## ALIGNMENTS

RESULT 1  
 ID AAZ50446 standard; DNA; 20 BP.  
 XX AAZ50446;  
 AC  
 XX 18-MAY-2000 (first entry)  
 XX  
 DE Human PB39 specific 3' RACE primer.  
 XX  
 KW PB39; human; prostate cancer; PC; chromosome 11p11.1-11.2; cancer;  
 KW prostate epithelium; splicing mechanism; early diagnosis; progression;  
 KW precancerous cell; metastatic potential; non-neoplastic prostate disease;  
 KW expressed sequence tag; EST; PCR primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200005376-A1.  
 XX  
 PD 03-FEB-2000.  
 XX  
 PF 23-JUL-1999; 99WO-US016831.  
 XX  
 PR 24-JUL-1998; 98US-0094137P.  
 XX  
 PA (USSH ) US DEPT HEALTH & HUMAN SERVICES.  
 XX  
 PI Chuaqui RF, Cole KA, Liotta LA;  
 DR WPI; 2000-182700/16.  
 XX  
 PT Novel gene which is dysregulated in prostate cancer useful for diagnosing  
 PT cancer.  
 XX  
 PS Claim 5; Page 18; 51pp; English.  
 XX  
 CC The present sequence is the human PB39 3' specific RACE primer, from EST  
 CC clone AAR00504. It is used to determine the complete nucleotide sequence  
 CC of PB39 cDNA, isolated from human pancreas cDNA library using RACE. The  
 CC PB39 gene that is dysregulated in prostate cancer has homology to the EST  
 CC AAR00504. PB39 gene is located on chromosome 11p11.1-11.2. Abnormally  
 CC high concentrations of PB39 are found in prostate tissue derived from  
 CC prostate cancer (PC) epithelium. PB39 sequence is useful for detection of  
 CC precancerous or cancer cells in the prostate. PB39 is useful for early  
 CC diagnosis of the progression of prostate cancer, especially in aggressive  
 CC prostate carcinoma. It can also distinguish PC from other non-neoplastic  
 CC prostate disease. The diagnostic method is selective and specific for  
 CC various types of PC and also facilitates identifying prostate cancer of  
 CC differing aggressiveness and metastatic potential  
 XX  
 SQ Sequence 20 BP; 6 A; 6 C; 4 G; 4 T; 0 U; 0 Other;  
 Query Match 100.0%; Score 20; DB 3; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 1.1;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCAGA 20  
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 Db 1 GACCGCATAGACTTCTCAGA 20

RESULT 2  
 AAX93486  
 ID AAX93486 standard; DNA; 20 BP.  
 XX  
 AC AAX93486;  
 XX  
 DT 13-SEP-1999 (first entry)  
 XX  
 DE PCR primer used to amplify an ORF of Chlamydia pneumoniae.  
 XX  
 KW Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis;  
 KW sinusitis; purulent otitis media; erythema nodosum; pharyngitis; vaccine;  
 KW neutralising epitope; PCR primer; ss.  
 XX  
 OS Synthetic.  
 OS Chlamydoiphila pneumoniae.  
 XX  
 PN WO927105-A2.  
 XX  
 PD 03-JUN-1999.  
 XX  
 PF 20-NOV-1998; 98WO-IB001890.  
 XX  
 PR 21-NOV-1997; 97FR-00014673.  
 PR 04-NOV-1998; 98US-0107078P.  
 XX  
 PA (GEST ) GENSET.  
 XX  
 PI Griffais R;  
 XX  
 DR WPI; 1999-357842/30.  
 XX  
 PT Genome sequence of Chlamydia pneumoniae.  
 XX  
 PS Page 1595; Disclosure; 1912pp; English.  
 XX  
 CC AAX91991-X97517 represent PCR primers used to amplify open reading frames  
 CC and other nucleic acid sequences from the genome of Chlamydia pneumoniae  
 CC (see AAX91990). C. pneumoniae causes respiratory disease such as  
 CC pneumonia and bronchitis and is thought to be a contributing factor in  
 CC heart disease, sarcoidosis, sinusitis, purulent otitis media, erythema  
 CC nodosum or pharyngitis. The polypeptides encoded by the open reading  
 CC frames of the C. pneumoniae genome (see AAY34584- AAY35879) can be used  
 CC in immunogenic compositions as vaccines. Vectors containing C. pneumoniae  
 CC nucleotides sequences can also be used as immunogenic compositions,  
 CC especially where the vector directs the expression of a neutralising  
 CC epitope of C. pneumoniae  
 XX  
 SQ Sequence 20 BP; 7 A; 6 C; 3 G; 4 T; 0 U; 0 Other;  
 Query Match 69.0%; Score 13.8; DB 2; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 2.3e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1 GACCGCATAGACTTCTC 17  
 |||||  
 Db 3 GACCGCATAACTTATC 19  
 |||||  
 RESULT 3  
 AAD62200/c  
 ID AAD62200 standard; DNA; 20 BP.  
 XX  
 AC AAD62200;  
 XX  
 DT 15-JAN-2004 (first entry)  
 XX  
 DE Human haematopoietic cell tyrosine kinase antisense oligo ISIS #150755.  
 XX  
 KW Haematopoietic cell; tyrosine kinase; hyperproliferative disorder;  
 KW cancer; therapy; inflammation; diabetes; viral infection; inflammation;  
 KW tumour; cytostatic; virucide; antisense therapy; antisense; human;  
 KW phosphorothioate backbone; ss.

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XX OS Homo sapiens.
XX OS Synthetic.
XX FH Key
XX FT Location/Qualifiers
XX FT 1. 20
XX FT /tag= a
XX FT /mod_base= OTHER
XX FT /note= "Phosphorothioate backbone; All cytidines are 5-
XX FT methyl cytidines"
XX FT 1. 5
XX FT /tag= b
XX FT /mod_base= OTHER
XX FT /note= "2'-O-methoxyethyl (2'-MOE) nucleotides"
XX FT 16. 20
XX FT /tag= c
XX FT /mod_base= OTHER
XX FT /note= "2'-O-methoxyethyl (2'-MOE) nucleotides"
XX FT US2003125275-A1.
XX PN 03-JUL-2003.
XX PD
XX PF
XX PR 04-DEC-2001; 2001US-00007010.
XX PR 04-DEC-2001; 2001US-00007010.
XX PA (ISIS-) ISIS PHARM INC.
XX PI Borchers AH, Dobie KW;
XX PI WPI; 2003-811000/76.
XX DR
XX XX
XX XX New antisense oligonucleotides targeted to nucleic acids encoding
XX PT hematopoietic cell protein tyrosine kinase, useful for diagnosing or
XX PT treating cancer (e.g. leukemia), inflammation, diabetes or viral
XX PT infections.
XX PS Example 15; Page 26; 59pp; English.
XX CC The invention relates to a compound targetted to a nucleic acid molecule
XX CC encoding haematopoietic cell protein tyrosine kinase. The compound
XX CC inhibits the expression of haematopoietic cell protein tyrosine kinase
XX CC and it specifically hybridises with the nucleic acid molecule encoding
XX CC the tyrosine kinase or with at least an 8-nucleobase portion of an active
XX CC site on the nucleic acid molecule encoding the tyrosine kinase. The
XX CC antisense compounds are useful for modulating the expression of
XX CC haematopoietic cell protein tyrosine kinase and treating diseases or
XX CC conditions associated with the expression of the tyrosine kinase, such as
XX CC hyperproliferative disorders (e.g. cancer), inflammation, diabetes or a
XX CC viral infection. The antisense compounds are also useful for diagnostics,
XX CC therapeutics, prophylaxis, e.g. to prevent or delay infection,
XX CC inflammation or tumour formation, as research reagents and kits and in
XX CC distinguishing between functions of various members of a biological
XX CC pathway. The present sequence is human haematopoietic cell tyrosine
XX CC kinase antisense oligonucleotide
XX SQ Sequence 20 BP; 6 A; 2 C; 7 G; 5 T; 0 U; 0 Other;
Query Match 66.0%; Score 13.2; DB 10; Length 20;
Best Local Similarity 83.3%; Pred. No. 4.8e+03;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 2 ACCGCATAGACTTCTCAG 19
Db 20 AACTCAATGACTTCTCAG 3
RESULT 4
ADT00440
ID ADT00440 standard; DNA; 20 BP.
XX AC ADT00440;

16-DEC-2004 (first entry)
Novel mutant protein tyrosine kinase-related oligonucleotide SeqID428.
tyrosine kinase; cancer; anti-cancer agent; signalling molecule;
tumorigenesis; somatic alteration; colorectal cancer; NTRK3; FES;
GUCY2F; MCKK; MLK4; kinase domain; cytosolic; tyrosine kinase inhibitor;
guanylate cyclase stimulator; ss.
Homo sapiens.
WO2004082458-A2.
30-SEP-2004.
18-FEB-2004; 2004WO-US004452.
21-FEB-2003; 2003US-0448537P.
29-MAY-2003; 2003US-0473895P.
(UYJO ) UNIV JOHNS HOPKINS.
Bardelli A, Parsons W, Velculescu V, Kinzler KW, Vogelstein B;
WPI; 2004-718702/70.
Activated mutant protein tyrosine kinases (e.g. NTRK3, FES and MCKK) and
associated methods for diagnosing cancer and screening for anti-cancer
agents.
Disclosure; SEQ ID NO 428; 363pp; English.
This invention relates to a novel activated mutant protein tyrosine
kinases and associated methods for diagnosing cancer and screening for
anti-cancer agents. Protein kinases are signalling molecules involved in
tumorigenesis. Mutational analysis of the human tyrosine kinase gene
family identified somatic alteration in 1 in 5 colorectal cancers, with
the majority of mutations occurring in the NTRK3, FES, GUCY2F and
MCKK/MLK4 genes. Most were identified in the kinase domain. The invention
may be useful for the production of compounds with a cytostatic activity
acting as protein tyrosine kinase inhibitors or guanylate cyclase
stimulators. The invention may be useful for developing methods for
detecting mutations involved in cancer or screening for anti-cancer
agents. The present sequence is that of a human-derived oligonucleotide
which is related to the invention.
Sequence 20 BP; 4 A; 7 C; 5 G; 4 T; 0 U; 0 Other;
Query Match 63.0%; Score 12.6; DB 13; Length 20;
Best Local Similarity 78.9%; Pred. No. 1e+04;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 1 GACCCGATAGACTTCTCAG 19
Db 2 GACCCGATAGACTTCTCAG 20
RESULT 5
ACA08287
ID ACA08287 standard; DNA; 17 BP.
XX AC ACA08287;
XX 03-JUN-2003 (first entry)
DE Necrosis factor kappa B (NFkB) sub-unit modulating DNase #56.
XX Enzymatic nucleic acid; nuclear factor kappa B; NFkB; inosine; zymase;
XX G-cleaver; amberszyme; cancer; REL-A activity; breast cancer; lung cancer;
XX prostate cancer; colorectal cancer; brain cancer; oesophageal cancer;
XX stomach cancer; bladder cancer; pancreatic cancer; cervical cancer;
XX head and neck cancer; ovarian cancer; melanoma; lymphoma; glioma;
```

KW multidrug resistant cancer; REL-A-specific inhibitor; chemotherapy;  
 KW paclitaxel; docetaxel; cisplatin; methotrexate; cyclophosphamide;  
 KW doxorubicin; fluorouracil carboplatin; edatrexate; gemcitabine;  
 KW radiation therapy; inflammatory disease; asthma; diabetes;  
 KW rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;  
 KW gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;  
 KW transplant/graft rejection; reperfusion injury; glomerulonephritis;  
 KW allergic airway inflammation; inflammatory bowel disease; infection; ss.  
 XX  
 OS Synthetic.  
 XX  
 OS US2002177568-A1.  
 XX  
 PN 28-NOV-2002.  
 PD  
 XX 23-MAY-2001; 2001US-00864785.  
 PF  
 XX 07-DEC-1992; 92US-00987132.  
 XX 18-MAY-1994; 94US-00245466.  
 PR 15-AUG-1994; 94US-00291932.  
 PR 23-DEC-1996; 96US-00777916.  
 XX (STIN/) STINCHCOMB D T.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (DRAP/) DRAPER K G.  
 XX  
 FI Stinchcomb DT, Mcswiggen J, Draper KG;  
 DR  
 XX WPI; 2003-340953/32.  
 XX  
 DR Novel enzymatic nucleic acid molecules which down regulates expression of  
 PT a sequence encoding a subunit of nuclear factor kappa B useful for  
 PT treating cancer, inflammatory disorders and autoimmune diseases.  
 XX  
 PS Claim 3; Page 46; 72pp; English.  
 XX  
 CC The invention describes an enzymatic nucleic acid molecule (I) which down  
 CC regulates expression of a sequence encoding a subunit of nuclear factor  
 CC kappa B (NFKB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme  
 CC configuration. The enzymatic nucleic acid molecule is adapted to treat  
 CC cancer and is useful for down-regulating REL-A activity in a cell, for  
 CC treating a patient having a condition associated with the level of REL-A.  
 CC (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in  
 CC the presence of a divalent cation, especially Mg<sup>2+</sup>. The enzymatic and  
 CC antisense nucleic acid molecules are useful for treating breast, lung,  
 CC prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,  
 CC cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or  
 CC multidrug resistant cancer. The method involves use of other drug  
 CC therapies such as monoclonal antibodies, REL-A-specific inhibitors or  
 CC chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,  
 CC cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate,  
 CC gemcitabine or radiation therapy. The enzymatic and antisense nucleic  
 CC acid molecules are also useful for treating inflammatory disease such as  
 CC rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,  
 CC obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft  
 CC rejection, gene therapy applications, ischaemia/reperfusion injury  
 CC (central nervous system (CNS) and myocardial), glomerulonephritis,  
 CC sepsis, allergic airway inflammation, inflammatory bowel disease or  
 CC infection. This sequence represents an enzymatic nucleic acid used to  
 CC modulate the function of a necrosis factor kappa B sub-unit  
 XX  
 SQ Sequence 17 BP; 4 A; 4 C; 5 G; 0 T; 4 U; 0 Other;  
 Query Match 62.0%; Score 12.4; DB 8; Length 17;  
 Best Local Similarity 64.3%; Pred. No. 1.3e+04;  
 Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;  
 QY 6 CATAGACTTCTCAG 19  
 ||: |||: |||:  
 Db 4 CAUGGACUUCUCAG 17

ACA06680  
 ID ACA06680 standard; RNA; 17 BP.  
 XX  
 AC ACA06680;  
 XX  
 DT 03-JUN-2003 (first entry)  
 XX  
 DE NFKB sub-unit modulating inozyme substrate #499.  
 XX  
 KW Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme;  
 KW G-cleaver; amberzyme; cancer; REL-A activity; breast cancer; human;  
 KW lung cancer; prostate cancer; colorectal cancer; brain cancer;  
 KW oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;  
 KW cervical cancer; head and neck cancer; ovarian cancer; melanoma;  
 KW lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor;  
 KW chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate;  
 KW cyclophosphamide; doxorubicin; fluorouracil carboplatin; edatrexate;  
 KW gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes;  
 KW rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;  
 KW gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;  
 KW transplant/graft rejection; reperfusion injury; glomerulonephritis;  
 KW allergic airway inflammation; inflammatory bowel disease; infection; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US2002177568-A1.  
 XX  
 PD 28-NOV-2002.  
 XX  
 XX 23-MAY-2001; 2001US-00864785.  
 XX  
 XX 07-DEC-1992; 92US-00987132.  
 PR 18-MAY-1994; 94US-00245466.  
 PR 15-AUG-1994; 94US-00291932.  
 PR 23-DEC-1996; 96US-00777916.  
 XX (STIN/) STINCHCOMB D T.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (DRAP/) DRAPER K G.  
 XX  
 FI Stinchcomb DT, Mcswiggen J, Draper KG;  
 DR  
 XX WPI; 2003-340953/32.  
 XX  
 DR Novel enzymatic nucleic acid molecules which down regulates expression of  
 PT a sequence encoding a subunit of nuclear factor kappa B useful for  
 PT treating cancer, inflammatory disorders and autoimmune diseases.  
 XX  
 PS Claim 3; Page 34; 72pp; English.  
 XX  
 CC The invention describes an enzymatic nucleic acid molecule (I) which down  
 CC regulates expression of a sequence encoding a subunit of nuclear factor  
 CC kappa B (NFKB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme  
 CC configuration. The enzymatic nucleic acid molecule is adapted to treat  
 CC cancer and is useful for down-regulating REL-A activity in a cell, for  
 CC treating a patient having a condition associated with the level of REL-A.  
 CC (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in  
 CC the presence of a divalent cation, especially Mg<sup>2+</sup>. The enzymatic and  
 CC antisense nucleic acid molecules are useful for treating breast, lung,  
 CC prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,  
 CC cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or  
 CC multidrug resistant cancer. The method involves use of other drug  
 CC therapies such as monoclonal antibodies, REL-A-specific inhibitors or  
 CC chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,  
 CC cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate,  
 CC gemcitabine or radiation therapy. The enzymatic and antisense nucleic  
 CC acid molecules are also useful for treating inflammatory disease such as  
 CC rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,  
 CC obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft  
 CC rejection, gene therapy applications, ischaemia/reperfusion injury  
 CC (central nervous system (CNS) and myocardial), glomerulonephritis,  
 CC sepsis, allergic airway inflammation, inflammatory bowel disease or  
 CC infection. This sequence represents the substrate of a novel enzymatic



```
PH Key Location/Qualifiers
PT modified_base 1..18
FT /tag= b
FT /mod_base= OTHER
FT /note= "OTHER= Phosphorothioate backbone"
FT modified_base 1..4
FT /tag= a
FT /mod_base= OTHER
FT /note= "OTHER= Optionally 2'-O-Methoxyethyl (2'-MOE)
FT nucleotides"
FT modified_base 15..18
FT /tag= c
FT /mod_base= OTHER
FT /note= "OTHER= Optionally 2'-O-Methoxyethyl (2'-MOE)
FT nucleotides"
XX
XX US2004147471-A1.
PN
XX
XX 29-JUL-2004.
XX
XX 06-NOV-2003; 2003US-00702817.
XX
XX 26-JUN-1998; 98US-00106038.
PR 17-JUN-1999; 99WO-US013763.
PR 24-OCT-2000; 2000US-00695451.
XX
XX (ZHAN/) ZHANG H.
PA
XX Zhang H;
PI
XX WPI; 2004-561407/54.
DR
XX
XX Inhibiting radiation-induced apoptosis in a cell or tissue comprises
PT administering to the cell or tissue an antisense oligonucleotide targeted
PT to a nucleic acid molecule encoding tumor necrosis factor receptor 1.
XX
XX Example 10; SEQ ID NO 75; 24pp; English.
XX
XX The invention describes a method of inhibiting radiation-induced
CC apoptosis in a cell or tissue comprising administering to the cell or
CC tissue an antisense oligonucleotide of 8-30 nucleotides in length
CC targeted to a nucleic acid molecule encoding tumor necrosis factor
CC receptor 1 (TNFR1). The method and antisense oligonucleotides are useful
CC for inhibiting radiation-induced apoptosis in a cell or tissue, and for
CC treating diseases associated with the expression of TNFR1. This sequence
CC represents a human tumor necrosis factor receptor 1 (TNFR1) antisense
CC oligonucleotide.
XX
XX Sequence 18 BP; 5 A; 3 C; 7 G; 3 T; 0 U; 0 Other;
SQ
Query Match 61.0%; Score 12.2; DB 13; Length 18;
Best Local Similarity 82.4%; Pred. No. 1.6e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 4 CGCATAGACTTCTCAGA 20
DB 18 CGCCAGTCTTCTCAGA 2
RESULT 10
ADG73193
ID ADG73193 standard; DNA; 19 BP.
XX
XX ADG73193;
XX
XX 11-MAR-2004 (first entry)
XX
XX Pseudomonas syringae pv. tomato DC3000 Hop gene PCR primer #40.
XX
XX Avr; Hop; transgenic plant; disease resistance; cancer; bacteria;
KW metabolic pathway; eukaryotic cell death; programmed cell death;
KW cytosstatic; PCR; primer; ss.
XX
```

```
OS Pseudomonas syringae; pv. tomato str. DC3000.
XX
XX US2003204868-A1.
XX
XX 30-OCT-2003.
PD
XX
XX 12-FEB-2003; 2003US-00365742.
XX
XX 12-FEB-2002; 2002US-0356408P.
PR 10-MAY-2002; 2002US-0380185P.
XX
XX (COLL/) COLLIER A.
PA (ALFA/) ALFANO J R.
PA (CART/) CARTINHOUS S W.
PA (SCHN/) SCHNEIDER D J.
PA (TANG/) TANG X.
XX
XX Collmer A, Alfano JR, Cartinhou SW, Schneider DJ, Tang X;
PI WPI; 2003-875735/81.
XX
XX New nucleic acid, useful in imparting disease resistance to a plant or in
PT preparing a composition for treating cancer.
PT
XX
XX Example; SEQ ID NO 187; 209pp; English.
XX
XX The present invention relates to the isolation of Pseudomonas syringae
CC pv. tomato DC3000 Avr/Hop proteins, and the polynucleotide sequences
CC encoding them. Also disclosed are expression vectors, host cells, and
CC transgenic plants comprising polynucleotide sequences of the invention.
CC The polynucleotide and polypeptide sequences are useful in imparting
CC disease resistance to a plant or in preparing a composition for treating
CC cancer. The sequences may also be used to make a plant hypersusceptible
CC to colonisation by nonpathogenic bacteri, modify a metabolic pathway in
CC a cell, cause eukaryotic cell death, and inhibit programmed cell death.
CC The present sequence represents a PCR primer used in the examples of the
CC present invention.
XX
XX Sequence 19 BP; 4 A; 7 C; 4 G; 4 T; 0 U; 0 Other;
SQ
Query Match 61.0%; Score 12.2; DB 10; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.6e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 3 CCGCATAGACTTCTCAG 19
DB 3 CCGCATAGACCTGTCTG 19
RESULT 11
ADL12249
ID ADL12249 standard; DNA; 19 BP.
XX
XX ADL12249;
XX
XX 06-MAY-2004 (first entry)
XX
XX Pseudomonas syringae anti-cancer gene primer #60.
DE cytosstatic; gene therapy; Avr; Hop; cancer; primer; ss.
XX
XX Pseudomonas syringae; pv tomato DC3000.
OS
XX WO2003068930-A2.
XX
XX 21-AUG-2003.
XX
XX 12-FEB-2003; 2003WO-US004450.
XX
XX 12-FEB-2002; 2002US-0356408P.
PR 10-MAY-2002; 2002US-0380185P.
XX
XX (CORR ) CORNELL RES FOUND INC.
PA
```



PA	(USDA ) US SEC OF AGRIC.
PA	(UYNE-) UNIV NEBRASKA.
PA	(UNIV ) UNIV KANSAS STATE RES FOUND.
PI	Collmer A, Alfano JR, Cartinhour SW, Schneider DJ, Tang X;
XX	WPI; 2003-679632/64.
DR	New nucleic acid molecule, useful for preparing a composition for
PT	treating cancer.
PT	
PS	Disclosure; SEQ ID NO 187; 284pp; English.
XX	The invention relates to novel Pseudomonas Avr and Hop genes, a sequence
CC	that hybridizes with these sequences under stringency conditions
CC	comprising a hybridization medium that includes 0.9 x saline sodium
CC	citrate (SSC) buffer at a temperature of 42 deg C. The nucleic acid
CC	molecule is useful for preparing a composition for treating cancer. This
CC	sequence corresponds to a PCR to isolate and amplify one of the genes of
CC	the invention.
XX	
SQ	Sequence 19 BP; 4 A; 7 C; 4 G; 4 T; 0 U; 0 Other;
	Query Match            61.0%; Score 12.2; DB 10; Length 19;
	Best Local Similarity   82.4%; Pred. No. 1.6e+04; Mismatches   3; Indels   0; Gaps   0;
	Matches   14; Conservative   0; Mismatches   3; Indels   0; Gaps   0;
QY	3 CGCATAGACTTCTCAG 19
Dd	
	3 CGCATAGACTTCTG 19
	RESULT 12
AD179866	
ID	ADI79866 standard; DNA; 20 BP.
XX	
AC	ADI79866;
OS	
PN	22-APR-2004 (first entry)
DE	Mouse HMG-CoA reductase antisense oligonucleotide, SEQ ID NO 389.
XX	
KW	HMG-CoA reductase; 3-hydroxy-3-methylglutaryl-Coenzyme A;
KW	HMG-CoA reductase; cardiant; antiarteriosclerotic; antilipemic;
KW	antisense gene therapy; cardiovascular disorder; cholesterol metabolism;
KW	mouse; murine; ss.
XX	
Mus musculus.	
US2004006031-A1.	
PD	08-JAN-2004.
XX	
Pf	02-JUL-2002; 2002US-00190366.
XX	
PR	02-JUL-2002; 2002US-00190366.
XX	
PA	(ISIS-) ISIS PHARM INC.
XX	
PI	Dean NM, Freier SM, Dobie KW;
XX	WPI; 2004-081743/08.
DR	
XX	New compounds, particularly antisense oligonucleotides targeted to a
PT	nucleic acid encoding HMG-CoA reductase, useful for treating
PT	atherosclerosis, or a disease involving cholesterol metabolism or
XX	angiogenesis.
XX	
PS	Example 16; SEQ ID NO 389; 110pp; English.
XX	
CC	The invention relates to novel compounds of 8-80 nucleobases in length
CC	targeted to, and which specifically hybridises with, a nucleic acid
CC	molecule encoding 3-hydroxy-3-methylglutaryl-Coenzyme A (HMG-CoA)
XX	
PT	New compounds, particularly antisense oligonucleotides targeted to a
PT	nucleic acid encoding HMG-CoA reductase, useful for treating
PT	atherosclerosis, or a disease involving cholesterol metabolism or
PT	angiogenesis.
XX	
XX	
PS	Example 16; SEQ ID NO 389; 110pp; English.
XX	
CC	The invention relates to novel compounds of 8-80 nucleobases in length
CC	targeted to, and which specifically hybridises with, a nucleic acid
CC	molecule encoding 3-hydroxy-3-methylglutaryl-Coenzyme A (HMG-CoA)

CC	reductase, and inhibits the expression of HMG-CoA reductase. The novel
CC	compounds have cardiant, antiarteriosclerotic, and antilipemic
CC	activities. The compound can be used to treat disorders by antisense gene
CC	therapy. The compounds, compositions and methods are useful for treating
CC	a disease or condition associated with HMG-CoA reductase, such as a
CC	cardiovascular disorder e.g. atherosclerosis, or a disease or condition
CC	involving cholesterol metabolism. They are also useful in research and
CC	diagnostics for modulating the expression of HMG-CoA reductase. This
CC	polynucleotide sequence represents an antisense oligonucleotide of the
CC	invention.
XX	
XX	Sequence 20 BP; 6 A; 6 C; 4 G; 4 T; 0 U; 0 Other;
	Query Match            61.0%; Score 12.2; DB 12; Length 20;
	Best Local Similarity   82.4%; Pred. No. 1.6e+04; Mismatches   3; Indels   0; Gaps   0;
	Matches   14; Conservative   0; Mismatches   3; Indels   0; Gaps   0;
QY	4 CGCATAGACTTCTCAGA 20
Dd	
	3 CACAGAGACTCTCTCAGA 19
	RESULT 13
AD179673/C	
ID	ADI79673 standard; DNA; 20 BP.
XX	
AC	ADI79673;
XX	
DT	22-APR-2004 (first entry)
XX	
DE	Mouse HMG-CoA reductase antisense oligonucleotide, SEQ ID NO 196.
XX	
KW	HMG-CoA reductase; 3-hydroxy-3-methylglutaryl-Coenzyme A;
KW	HMG-CoA reductase; cardiant; antiarteriosclerotic; antilipemic;
KW	antisense gene therapy; cardiovascular disorder; cholesterol metabolism;
KW	mouse; murine; ss.
XX	
Mus musculus.	
US2004006031-A1.	
XX	
PD	08-JAN-2004.
XX	
Pf	02-JUL-2002; 2002US-00190366.
XX	
PR	02-JUL-2002; 2002US-00190366.
XX	
PA	(ISIS-) ISIS PHARM INC.
XX	
PI	Dean NM, Freier SM, Dobie KW;
XX	WPI; 2004-081743/08.
DR	
XX	New compounds, particularly antisense oligonucleotides targeted to a
PT	nucleic acid encoding HMG-CoA reductase, useful for treating
PT	atherosclerosis, or a disease involving cholesterol metabolism or
XX	angiogenesis.
XX	
PS	Example 16; SEQ ID NO 196; 110pp; English.
XX	
CC	The invention relates to novel compounds of 8-80 nucleobases in length
CC	targeted to, and which specifically hybridises with, a nucleic acid
CC	molecule encoding 3-hydroxy-3-methylglutaryl-Coenzyme A (HMG-CoA)

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XX SQ Sequence 20 BP; 4 A; 4 C; 6 G; 6 T; 0 U; 0 Other;
Query Match 61.0%; Score 12.2; DB 12; Length 20;
Best Local Similarity 82.4%; Pred. No. 1.6e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 4 CGCATAGACTTCTTCAGA 20
Db 18 CACAGAGACTCTCTTCAGA 2
RESULT 14
AAQ32840
ID AAQ32840 standard; DNA; 20 BP.
XX AC
XX AAQ32840;
XX DT 25-MAR-2003 (revised)
XX DT 05-MAY-1993 (first entry)
XX DE Microsatellite repeat polymorphic DNA marker PCR primer.
XX KW PIC; high polymorphism information content; forensic; screening;
XX KW polymerase chain reaction; genetic mapping; paternity; prenatal.
XX OS Synthetic.
XX XX
XX XX WO9221693-A1.
XX PN
XX PD 10-DEC-1992.
XX PF 27-MAY-1992; 92WO-US004195.
XX PR 29-MAY-1991; 91US-00707501.
XX PR 27-NOV-1991; 91US-00799828.
XX PA (USSH ) US DEPT HEALTH & HUMAN SERVICE.
XX XX
XX PI Polymeropoulos MH, Merrill CR;
XX DR WPI; 1992-433606/52.
XX CC Oligo-nucleotide primers for polymerase chain reaction amplification -
XX PT which detect DNA polymorphisms and are useful for prenatal and paternity
XX PT screening, and genetic mapping.
XX PS Disclosure; Fig 60; 44pp; English.
XX CC This is a PCR primer which is used (with AAQ32841) to characterise a
XX CC unique microsatellite repeat polymorphic DNA marker which has a high
XX CC polymorphism information content. The marker is useful for human
XX CC individualisation, in forensic screening, in paternity and prenatal
XX CC screening as well as in genetic mapping. (Updated on 25-MAR-2003 to
XX CC correct PN field.)
XX SQ Sequence 20 BP; 6 A; 8 C; 3 G; 3 T; 0 U; 0 Other;
Query Match 60.0%; Score 12; DB 2; Length 20;
Best Local Similarity 75.0%; Pred. No. 2.1e+04;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 GACCGCATAGACTTCTTCAGA 20
Db 1 GACCCACAGCCTATTTCAGA 20
RESULT 15
AAQ57863
ID AAQ57863 standard; DNA; 20 BP.
XX AC
XX AAQ57863;
XX XX
XX DE Exemplary oligonucleotide primer TBP (For).
XX KW neoplasia; mutant; target nucleotide; hybridization; lung cancer; ss;
XX KW neck cancer; head cancer; saliva test; chemotherapy; early detection;

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DT 25-MAR-2003 (revised)
DT 21-AUG-1994 (first entry)
XX DE Primer pair 26A II-D detection primer #1.
XX KW Primer; assay; subtle difference; dinucleotide; tetranucleotide; repeat;
XX KW polymorphism; PCR; polymerase chain reaction; amplify; PAGE;
XX KW autoradiography; migration pattern; length variation; genetic mapping;
XX KW forensic screening; paternity; prenatal; screening; microsatellite;
XX KW human; ss.
XX OS Synthetic.
XX XX
XX PN WO9403640-A1.
XX PD 17-FEB-1994.
XX PF 30-JUL-1993; 93WO-US007183.
XX PR 31-JUL-1992; 92US-00922723.
XX PR 28-SEP-1992; 92US-00952277.
XX PA (USSH ) US DEPT HEALTH & HUMAN SERVICES.
XX PI Polymetopulous MH, Merrill CR;
XX XX
XX DR WPI; 1994-065727/08.
XX CC New polynucleotide sequences - derived from polymorphic microsatellite
XX PT repeats, used for characterising human individuals for forensic,
XX PT paternity and prenatal screening and genetic mapping.
XX PS Disclosure; Page 47; 72pp; English.
XX CC The sequences given in AAQ57782-866 are primers which were used in an
XX CC assay for measuring the subtle differences in genetic material regarding
XX CC an added or omitted set of dinucleotide or tetranucleotide repeat
XX CC polymorphisms. The method comprises obtaining polynucleotide segments
XX CC comprising the repeat polymorphisms in an amount effective for testing
XX CC and amplifying the segments by a PCR procedure using a pair of
XX CC oligonucleotide primers capable of amplifying the polymorphism containing
XX CC sequence. The amplified sequences are resolved using PAGE and the
XX CC resolved sequences are compared by autoradiography to observe the
XX CC differences in migration pattern due to length variation. The
XX CC polynucleotides provide a fast and accurate test for measuring the subtle
XX CC differences in individuals in eg. forensic screening, paternity and
XX CC prenatal screening and genetic mapping. The polynucleotides are specific
XX CC for polymorphic microsatellite repeats based on previously sequenced
XX CC human genes. (Updated on 25-MAR-2003 to correct PN field.)
XX SQ Sequence 20 BP; 6 A; 8 C; 3 G; 3 T; 0 U; 0 Other;
Query Match 60.0%; Score 12; DB 2; Length 20;
Best Local Similarity 75.0%; Pred. No. 2.1e+04;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 GACCGCATAGACTTCTTCAGA 20
Db 1 GACCCACAGCCTATTTCAGA 20
RESULT 16
AAZ21763
ID AAZ21763 standard; DNA; 20 BP.
XX AC
XX AAZ21763;
XX DT 01-DEC-1999 (first entry)
XX DE Exemplary oligonucleotide primer TBP (For).
XX KW neoplasia; mutant; target nucleotide; hybridization; lung cancer; ss;
XX KW neck cancer; head cancer; saliva test; chemotherapy; early detection;

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KW primer; PCR; amplification.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 PN WO9946408-A1.  
 XX  
 XX  
 PD 16-SEP-1999.  
 XX  
 XX  
 PF 10-MAR-1999; 99WO-US005220.  
 XX  
 XX  
 PR 10-MAR-1998; 98US-00038637.  
 XX  
 XX (UYJO ) UNIV JOHNS HOPKINS SCHOOL MEDICINE.  
 PA  
 XX Sidransky D;  
 PI  
 XX  
 DR WPI; 1999-551428/46.  
 XX  
 XX  
 XX Detection of cancers comprises assaying for a genetic mutation associated with cancer.  
 PT  
 PT  
 XX  
 PS Disclosure; Page 27; 99pp; English.  
 XX  
 XX This is an exemplary oligonucleotide primer, for use in the detection of neoplastic related gene mutations. There are over 40 known proto-oncogenes and suppressor genes to date, which control growth, development, and cell differentiation. Regulation of these genes can, under certain circumstances, be altered and normal cells can assume neoplastic growth characteristics. The invention provides a method for detecting a neoplastic disorder of the head and neck or lung in a subject. The detection of a target mutant nucleotide sequence in the saliva is indicative of a neoplastic disorder of the head, neck or lung. This allows early detection and therefore treatment of the preneoplasia or cancer, and can also be used to monitor high risk patients undergoing chemoprevention or chemotherapy  
 CC  
 CC  
 XX Sequence 20 BP; 6 A; 8 C; 3 G; 3 T; 0 U; 0 Other;  
 SQ

Query Match 60.0%; Score 12; DB 2; Length 20;  
 Best Local Similarity 75.0%; Pred. No. 2.1e+04;  
 Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
 QY 1 GACCGCATAGACTTCTCAGA 20  
 DB 1 GACCCACAGCCTATTTCAGA 20

RESULT 17  
 AAC60963  
 ID AAC60963 standard; DNA; 20 BP.  
 XX  
 AC AAC60963;  
 XX  
 DT 13-FEB-2001 (first entry)  
 XX  
 XX TATA box-binding protein short tandem repeat primer SEQ ID NO:23.  
 DE  
 XX Short tandem repeat; primer; STR; susceptibility; HIV; infection; AIDS;  
 KW detection; polymorphism; interleukin 10 promoter; IL-10;  
 KW chromosome position 6q27; TATA box-binding protein; ss.  
 XX  
 XX Homo sapiens.  
 OS  
 XX WO2000061811-A2.  
 PN  
 XX  
 XX 19-OCT-2000.  
 PD  
 XX 06-APR-2000; 2000WO-US009355.  
 PF  
 XX 09-APR-1999; 99US-0128521P.  
 PR  
 XX (USSH ) US DEPT HEALTH & HUMAN SERVICES.  
 PA

Smith MW, Shin HD, O'Brien SJ;  
 WPI; 2000-687051/67.  
 Predicting susceptibility to HIV infection or progression useful for selection of therapeutic treatment for persons infected with HIV virus, comprises detecting polymorphism in human interleukin-10 promoter.  
 Example 1; Page 12; 40pp; English.  
 The present invention describes a method for predicting susceptibility to HIV infection or HIV progression in a subject. The method involves detecting a polymorphism in a human interleukin-10 (IL-10) promoter, where the presence of the polymorphism indicates susceptibility to HIV infection or HIV progression. The method provides prognostic information to persons infected with HIV virus and is useful to help select treatments (such as administration of IL-10 or gene therapy with IL-10). The presence of polymorphism is useful as predictor that very aggressive treatment could substantially eradicate the virus from the infected person. The method is useful for the generation of normograms or other predictive algorithms that can be used, in association with allele status, to prognose probable survival or years to development of AIDS following HIV seroconversion. It indicates that increased expression of the IL-10 gene helps to reduce HIV-1 infection and pathogenic progression and enables a variety of new therapeutic interventions in the treatment of HIV disease. The present sequence represents a short tandem repeat (STR) primer which is used in an example from the present invention  
 Sequence 20 BP; 6 A; 8 C; 3 G; 3 T; 0 U; 0 Other;  
 Query Match 60.0%; Score 12; DB 3; Length 20;  
 Best Local Similarity 75.0%; Pred. No. 2.1e+04;  
 Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
 QY 1 GACCGCATAGACTTCTCAGA 20  
 DB 1 GACCCACAGCCTATTTCAGA 20

RESULT 18  
 ADB42063  
 ID ADB42063 standard; DNA; 17 BP.  
 XX  
 AC ADB42063;  
 XX  
 DT 18-DEC-2003 (revised)  
 DT 04-DEC-2003 (first entry)  
 XX  
 XX Tumour suppression/reversion associated nucleotide #2386.  
 DE  
 XX cytostatic; antiviral; neuroprotective; nootropic; neuroleptic; ss;  
 KW primer; probe; tumour suppression; tumour reversion; apoptosis;  
 KW virus resistance; transgenic animals; Alzheimer's disease; schizophrenia;  
 KW diagnosis.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2003040369-A2.  
 XX  
 XX 15-MAY-2003.  
 PD  
 XX 17-SEP-2002; 2002WO-IB004219.  
 PF  
 XX 17-SEP-2001; 2001FR-00011981.  
 PR  
 XX (MOLE-) MOLECULAR ENGINES LAB.  
 PA  
 XX Teleman A, Anson R, Tuijnder M;  
 PI  
 XX WPI; 2003-441574/41.  
 DR  
 XX New nucleic acid encoding human prostate membrane-specific antigen,  
 PT

PT useful e.g. for treatment of tumors and viral infection, also related

PT polypeptide and antibodies.

XX Disclosure; Page 311; 771pp; French.

XX The invention relates to the isolation of 6327 nucleotide sequences, CC fragments of at least 15 consecutive nucleotides of these nucleotides, a CC sequence having at least 80% identity, after optimal alignment, with the CC nucleotides, a sequence that hybridizes under stringent conditions with CC the nucleotides, or the complement, or corresponding RNA, of the CC nucleotides. The nucleotides are used as probes or primers for detecting, CC identifying, quantifying and/or amplifying nucleic acids, as in vitro CC sense and antisense sequences, of nucleotides involved in tumour CC suppression or reversion, apoptosis and or viral resistance, to produce CC recombinant polypeptides, and to prepare transgenic animals, as CC experimental models. The nucleotides (also vectors containing them and CC cells containing the vectors), the encoded polypeptides and antibodies CC (Ab) against the polypeptide are useful for prevention and/or treatment CC of viral infections or diseases characterized by development of tumours CC or cell degeneration (e.g. Alzheimer's disease or schizophrenia). CC Analysis of the expression of the nucleotides can be used for diagnosis CC and/or prognosis of these diseases. The nucleotides and polypeptides can CC also be used to screen for their specific interactive molecules, CC potentially useful for treating diseases associated with abnormal CC expression of the nucleotides.

XX

SQ Sequence 17 BP; 6 A; 5 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 59.0%; Score 11.8; DB 10; Length 17;

Best Local Similarity 86.7%; Pred. No. 2.6e+04;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTC 15  
||| |||||

Db 1 GATCACATAGACTTC 15

RESULT 19

ADI48431/c

ID ADI48431 standard; DNA; 17 BP.

XX

AC ADI48431;

XX

DT 15-APR-2004 (first entry)

XX

XX Human tumour suppression/reversion-related DNA sequence SeqID934.

DE

XX

KW tumour suppression; tumour reversion; apoptosis; virus resistance;

KW cytostatic; virucide; neuroprotective; nootropic; neuroleptic; probe;

KW primer; PCR; gene chip; antisense; viral disease; tumour;

KW cell degeneration; cancer; Alzheimer's disease; schizophrenia; ds; human.

XX

OS Homo sapiens.

XX

PN WO2003025177-A2.

XX

PD 27-MAR-2003.

XX

XX 17-SEP-2002; 2002WO-IB004523.

PF

XX 17-SEP-2001; 2001FR-00011980.

PR

XX (MOLE-) MOLECULAR ENGINES LAB.

PA

XX Telerman A, Amson R, Tuijnder M;

PI

XX WPI; 2003-313354/30.

DR

XX New isolated nucleic acid, useful for treating viral diseases associated

PT with tumors and cell degeneration, also related polypeptides, antibodies

PT and transfected cells.

XX

XX Disclosure; SEQ ID NO 934; 30pp; French.

PS

XX This invention relates to novel isolated nucleic acid sequences involved CC in the phenomena of tumour suppression, tumour reversion, apoptosis CC and/or resistance to viruses. The invention may be useful for the CC development of compounds with a cytostatic, virucide, neuroprotective, CC nootropic or neuroleptic activity. The DNA sequences may be useful as CC probes and primers for detecting, indentifying, quantifying and/or CC amplifying nucleic acid, for example as one component of a gene chip, in CC vitro as antisense reagents and for production of recombinant CC polypeptides. The invention may therefore be useful for preparation of CC pharmaceuticals for prevention and/or treatment of viral diseases that CC are characterised by development of tumours or cell degeneration, CC specifically cancer but also Alzheimer's disease and schizophrenia. The CC present sequence is that of a nucleic acid sequence of the invention. CC Note: The sequence data for this patent did not form part of the printed CC specification, but was obtained in electronic format directly from WIPO CC at ftp.wipo.int/pub/publishedpct\_sequences

XX

SQ Sequence 17 BP; 6 A; 1 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 59.0%; Score 11.8; DB 10; Length 17;

Best Local Similarity 86.7%; Pred. No. 2.6e+04;

Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 CATAGACTTCTCAGA 20  
||| |||||

Db 17 CATAAACTTCTCTGA 3

RESULT 20

AAQ94315/c

ID AAQ94315 standard; DNA; 18 BP.

XX

AC AAQ94315;

XX

DT 09-MAY-1996 (first entry)

XX

XX Human cytochrome P450IIC18 exon 2 point mutant 204 PCR primer.

DE

XX

KW Human-derived; cytochrome P450IIC18 gene; point mutant; exon 2;

KW position 204; PCR primer; polymorphism; medicine metabolism; tricyclics;

KW benzodiazepines; beta blockers; barbiturates; ss.

XX

OS Synthetic.

XX

PN WO9526415-A1.

XX

PD 05-OCT-1995.

XX

PF 28-MAR-1995; 95WO-JP000570.

XX

PR 29-MAR-1994; 94JP-00059385.

PR 29-MAR-1994; 94JP-00059386.

XX

XX (SUMO ) SUMITOMO CHEM CO LTD.

XX

XX Komai K, Kaneko H, Nakatsuka I;

PI

XX WPI; 1995-351329/45.

DR

XX

PT Oligo:nucleotide which hybridises to human cytochrome P450IIC18 gene -

PT for detection of mutation(s) in the gene when establishing safe

PT medication dosage in individual patients.

XX

XX Claim 4; Page 20; 34pp; Japanese.

XX

XX The oligos AAQ94315-27 which hybridise to the human-derived cytochrome CC P450IIC18 gene, esp. to the gene having a point mutation at position 204 CC in exon 2, can be used as PCR amplification primers which discriminate CC between the normal and mutated gene, allowing the degree of genetic CC polymorphism in a patient to be determined. As the gene prod. CC participates in the metabolism of medicines (e.g. tricyclics, CC benzodiazepines, beta blockers and barbiturates), patients with mutant

CC genes differ in their drug metabolising ability and therefore knowledge  
of this allows the safe dosage of medicine to be more accurately assessed

XX Sequence 18 BP; 5 A; 4 C; 3 G; 6 T; 0 U; 0 Other;

Query Match 59.0%; Score 11.8; DB 2; Length 18;  
Best Local Similarity 86.7%; Pred. No. 2.6e+04;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 CATAGACTTCTCAGA 20  
||||| |||  
Db 16 CATAGACTTTTGAGA 2

RESULT 21  
AAV30475  
ID AAV30475 standard; DNA; 18 BP.  
XX AC AAV30475;  
XX DT 14-OCT-1998 (first entry)  
XX Canine beta-3 adrenergic receptor antisense primer TR21.  
DE Canine; beta-adrenergic receptor; brown adipose tissue; probe; human;  
KW hybridisation; ligand; primer; ss.  
XX Synthetic.  
OS Canis familiaris.  
XX WO9735973-A2.  
XX 02-OCT-1997.  
XX 26-MAR-1997; 97WO-FR000537.  
XX 26-MAR-1996; 96FR-00003730.  
XX (VETI-) VETIGEN.  
XX Lenzen G, Pietri-Rouxel F, Drumare M, Strosberg AD;  
XX WPI; 1998-032136/03.  
XX Canine beta 2 and beta 3 adrenergic receptors and coding sequences -  
PT useful for identifying specific ligands and (ant)agonists to develop  
PT specific treatments for obesity in dogs.  
XX Claim 17; Page 49; 79pp; French.  
XX Primers AAV30470-V30490 were used for sequencing the coding region of the  
CC canine beta 3-adrenergic receptor (RA-Ca-B3) gene (AAV30469). RA-Ca-B3  
CC has been implicated in obesity and obesity-related metabolic disorders  
CC e.g. diabetes. The canine version of RA-Ca-B3 can be used to develop  
CC treatments specific for dogs. The sequence can also be used in  
CC differential screening for ligands for RA-Ca-B3 as compared to the beta-2  
CC adrenergic receptor (AAW44932)  
XX Sequence 18 BP; 3 A; 8 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 59.0%; Score 11.8; DB 2; Length 18;  
Best Local Similarity 86.7%; Pred. No. 2.6e+04;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 CCGCATAGACTTCTC 17  
||||| |||  
Db 3 CCGCAGAGACTTCTC 17

RESULT 22  
AAV33985  
ID AAV33985 standard; DNA; 20 BP.  
XX

AAV33985;  
25-JAN-1999 (first entry)  
Primer CT1431P for C. trachomatis cryptic plasmid sequence.  
Primer; PCR; amplification; gag; qualitative; quantitative; analysis;  
infection; diagnosis; detection; serotype; ss.  
Synthetic.  
Chlamydia trachomatis.  
US5795722-A.  
18-AUG-1998.  
18-MAR-1997; 97US-00819912.  
18-MAR-1997; 97US-00819912.  
(VISI-) VISIBLE GENETICS INC.  
Dunn JM, Lacroix J;  
WPI; 1998-466660/40.  
Simultaneous qualitative and quantitative analysis of target nucleic acid  
- by simultaneous amplification of analyte and control with one primer  
pair and of sequencing fragment with second primer pair that includes  
label for immobilisation, especially for HIV-1 detection.  
Disclosure; Col 8; 18pp; English.  
Primers AAV33985-V33986 are used to amplify a fragment of the Chlamydia  
trachomatis cryptic plasmid sequence. The primers are used in a method  
for the qualitative and quantitative analysis of a nucleic acid analyte  
in a sample. The method comprises adding a control nucleic acid to the  
sample and two primer pairs, one pair which can amplify a conserved  
region of the sample nucleic acid and a region of the control nucleic  
acid to produce fragments (F1, F2) of differing lengths, while the other  
pair amplifies a second region of the sample nucleic acid to form a  
sequencing fragment (F3). The method generates a mixture of all 3  
fragments if the sample nucleic acid is present but only F2 if it is  
absent. The resultant mixture is analysed for relative amounts of F1 and  
F2, to quantify the level of sample nucleic acid; and fragment F3 is  
sequenced to determine the nature of sample nucleic acid. The method can  
be used for any infectious organism, e.g. human papilloma virus or  
Chlamydia trachomatis. By using primers specific for the disease to be  
tested e.g. HIV-1, the disease can be detected and by the amount of  
amplification product formed, the viral load i.e. the extent of the  
disease can be assessed. Then by using in the same assay a pair of  
sequencing primers, the serotype of the disease organism can be  
determined, leading to a more exact treatment  
Sequence 20 BP; 6 A; 3 C; 5 G; 6 T; 0 U; 0 Other;

Query Match 59.0%; Score 11.8; DB 2; Length 20;  
Best Local Similarity 86.7%; Pred. No. 2.7e+04;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTCAG 19  
||||| |||  
Db 3 GCATAACTTCTCAG 17

RESULT 23  
AAZ24116  
ID AAZ24116 standard; DNA; 20 BP.  
XX AAZ24116;  
XX 03-FEB-2000 (first entry)  
XX



KW pulmonary transplantation rejection; ss; primer.  
 OS Homo sapiens.  
 XX WO200285309-A2.  
 PN 31-OCT-2002.  
 PD 23-APR-2002; 2002WO-US013143.  
 XX 24-APR-2001; 2001US-0286036P.  
 PF (EPIC-) EPIGENESIS PHARM INC.  
 XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 XX WPI; 2003-093058/08.  
 DR Pharmaceutical composition for treating asthma, has antisense  
 XX oligonucleotide containing less percentage of adenosine, targeted to  
 PT nucleic acids associated with lung airway or lung dysfunction, and  
 PT bronchodilating agent.  
 XX Claim 15; SEQ ID NO 6526; 763pp; English.  
 PS This invention describes a novel composition (a) a first active agent,  
 XX comprising oligonucleotides, effective for alleviating  
 CC bronchoconstriction, respiratory tract inflammation, allergies and  
 CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,  
 CC surfactant depletion or hyposecretion, when administered to a mammal. The  
 CC oligonucleotides are derived from a gene encoding or regulating  
 CC expression of a target polypeptide associated with lung airway or lung  
 CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.  
 CC The invention also describes a kit, that comprises: (a) a delivery  
 CC device, in separate containers, (b) the oligonucleotides, (c)  
 CC instructions for adding a carrier and for use of the kit. The composition  
 CC of the invention has anti-allergic, anti-inflammatory, antiasthmatic,  
 CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a  
 CC beta-adrenergic agonist. The composition is useful for preventing or  
 CC treating a respiratory, lung or malignant disease. The administered  
 CC composition comprises oligo and is administered to reduce the production  
 CC or availability, or to increase the degradation of the target mRNA or to  
 CC reduce the amount of target polypeptide present in the lungs. The  
 CC pulmonary obstruction, and/or bronchoconstriction and/or lung  
 CC inflammation, allergies and/or surfactant hypoproduction are associated  
 CC with a disease or condition such as pulmonary vasoconstriction,  
 CC inflammation, allergies, asthma, impeded respiration, respiratory  
 CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary  
 CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary  
 CC transplantation rejection, pulmonary infections, bronchitis or cancer.  
 CC The reduced adenosine content of the anti-sense oligos corresponding to  
 CC thymidines present in the target RNA serves to prevent the breakdown of  
 CC the oligonucleotides into products that free adenosine into the system  
 CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to  
 CC prevent any unwanted effects due to it  
 XX  
 SQ Sequence 20 BP; 6 A; 4 C; 6 G; 4 T; 0 U; 0 Other;  
 Query Match 59.0%; Score 11.8; DB 11; Length 20;  
 Best Local Similarity 86.7%; Pred. No. 2.7e+04;  
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 6 CATAGACTTCTCAGA 20  
 Db 19 CTTACACTTCTCAGA 5  
 |||||  
 RESULT 26  
 AAD11750/c  
 ID AAD11750 standard; DNA; 19 BP.  
 XX  
 AC AAD11750;

XX 24-SEP-2001 (first entry)  
 DT Human AAG6 DNA exon 1.13 amplifying reverse PCR primer #13.  
 DE Human; asthma-associated gene; AAG6; antiinflammatory; gene therapy;  
 XX obstructive airway disease; asthma; chronic bronchitis; eosinophilia;  
 KW adult respiratory distress syndrome; ARDS; dyspnoea; emphysema; COPD;  
 KW COAD; chronic obstructive or pulmonary disease; pneumoconiosis;  
 KW eosinophil related disorder; bronchopulmonary aspergillosis;  
 KW Loffler's syndrome; polyarteritis nodosa; PCR primer; ss.  
 XX Homo sapiens.  
 OS WO200155214-A2.  
 PN 02-AUG-2001.  
 PD 23-JAN-2001; 2001WO-EP000719.  
 XX 25-JAN-2000; 2000US-00490616.  
 PF (NOVS ) NOVARTIS AG.  
 XX (NOVS ) NOVARTIS-ERFINDUNGEN VERW GES MBH.  
 PA Whittaker PA, Jones SJ, Hanley MT;  
 XX WPI; 2001-457719/49.  
 DR Novel polypeptide AAG6 useful for treating an inflammatory or obstructive  
 XX airways disease, e.g., asthma.  
 PT Example 2; Page 26; 62pp; English.  
 PS The invention relates to human asthma-associated gene designated as AAG6.  
 CC AAG6 is used in the diagnosis, prognosis and treatment of inflammatory or  
 CC obstructive airway diseases such as asthma, adult respiratory distress  
 CC syndrome (ARDS), chronic obstructive or pulmonary disease (COPD or COAD),  
 CC chronic bronchitis, dyspnoea, emphysema and pneumoconiosis. AAG6 is also  
 CC used in the treatment of eosinophil related disorders such as  
 CC eosinophila, eosinophilic pneumonia, Loffler's syndrome, bronchopulmonary  
 CC aspergillosis, polyarteritis nodosa and eosinophilic granuloma. AAG6 DNA  
 CC is useful in gene therapy. The present sequence is a PCR primer used for  
 CC amplifying human AAG6 DNA  
 XX  
 SQ Sequence 19 BP; 2 A; 5 C; 6 G; 6 T; 0 U; 0 Other;  
 Query Match 58.0%; Score 11.6; DB 4; Length 19;  
 Best Local Similarity 77.8%; Pred. No. 3.4e+04;  
 Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
 QY 1 GACCGCATAGACTTCTCA 18  
 |||||  
 Db 18 GACGGCAGCGACATCTCA 1  
 |||||  
 RESULT 27  
 ABK41518  
 ID ABK41518 standard; DNA; 20 BP.  
 XX  
 AC ABK41518;  
 XX 21-MAY-2002 (first entry)  
 DT Human CTNNA3 exon-specific upper PCR primer #5.  
 XX Human; mouse; alpha-catenin; primer; ss; cytostatic; antiinfertility;  
 KW cadherin-catenin related pathway; heart testis; cancer; gene therapy;  
 KW cadherin-catenin related disease; specifically dilated cardiomyopathy;  
 KW cardiomyopathy; male infertility; CTNNA3; PCR; alpha T-catenin.  
 XX Homo sapiens.  
 OS

```
PN WO200204636-A1.
XX
XX 17-JAN-2002.
XX
XX 28-JUN-2001; 2001WO-BP007392.
XX
XX 12-JUL-2000; 2000EP-00202472.
XX
XX 14-JUL-2000; 2000US-0218309P.
XX
XX (VLA-) VLAAMS INTERUNIVERSITAIR INST BIOTECHNOG.
XX
XX Van Roy F, Goossens S, Janssens B, Vampoucke G;
XX WPI; 2002-171717/22.
XX
XX New alpha catenin polypeptides and polynucleotides encoding them, useful
XX for predicting, diagnosing or treating cadherin-catenin related diseases,
XX particularly cardiomyopathies, cancer and male infertility.
XX
XX Example; Page 35; 132pp; English.
XX
XX The invention relates to human and mouse alpha-catenin polypeptides and
XX their associated polynucleotides. The polypeptides and related antibodies
XX are useful for modulating the cadherin-catenin related pathway in
XX selected organs, such as the heart and testis. The nucleic acids and the
XX antibodies are useful in the diagnosis and/or prediction of the
XX likelihood of developing cadherin-catenin related diseases. The nucleic
XX acids may also be used to predict the likelihood of developing cancer or
XX in diagnosing cancer, and in gene therapy. The polypeptide, the nucleic
XX acid or the antibody is useful in manufacturing a medicament for treating
XX cadherin-catenin related diseases, such as cancer, cardiomyopathy,
XX specifically dilated cardiomyopathy, and male infertility. Sequences
XX ABK41510-ABK41599 represent PCR primers used to amplify DNA encoding
XX human and mouse alpha-catenin polypeptides, including the CTNNA3 gene
XX which encodes human alpha T-catenin
XX
XX Sequence 20 BP; 5 A; 5 C; 5 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 58.0%; Score 11.6; DB 6; Length 20;
XX Best Local Similarity 77.8%; Pred. No. 3.4e+04;
XX Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
XX
XX QY 1 GACCGCATAGACTTCTCA 18
XX |||||
XX Db 2 GACTGAACAGGCTTCTCA 19
XX
XX RESULT 28
XX ABS59713
XX ID ABS59713 standard; DNA; 20 BP.
XX
XX AC ABS59713;
XX
XX 05-NOV-2002 (first entry)
XX
XX Human damage specific DNA binding protein 1 antisense oligonucleotide #5.
XX
XX Antisense; cytostatic; hepatotrophic; antiinflammatory; virucide;
XX Damage-specific DNA-binding protein 1; p127; cancer; human; ss;
XX hyperproliferative disorder; haematopoietic cancer; hepatitis.
XX
XX Homo sapiens.
XX Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
XX /tag= a
XX /mod_base= m5c
XX /note= "All cytosines are 5-methyl cytosine"
XX modified_base 1..20
XX /tag= c
XX /mod_base= OTHER
XX /note= "OTHER= phosphorothioate backbone"
XX
XX FT
```

```
FT modified_base 1..5
FT /tag= b
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-methoxyethyl nucleotide"
FT modified_base 16..20
FT /tag= d
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-methoxyethyl nucleotide"
XX
XX WO200246206-A1.
XX
XX 13-JUN-2002.
XX
XX 04-DEC-2001; 2001WO-US046485.
XX
XX 06-DEC-2000; 2000US-00731457.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Popoff I, Wyatt JR;
XX
XX WPI; 2002-599454/64.
XX
XX Novel antisense compound targeted to nucleic acid molecule encoding
XX Damage-specific DNA-binding protein 1, p127, useful for treating animal
XX having disease associated with the protein such as liver cancer, or
XX hepatitis.
XX
XX Page 89; Claim 3; 121pp; English.
XX
XX This invention relates to a novel antisense compound 8 to 50 nucleobases
XX in length targeted to nucleic acid molecule encoding Damage-specific DNA-
XX binding protein 1, p127 where the antisense compound specifically
XX hybridises with and inhibits expression of the damage specific DNA
XX binding protein-1 gene. The compounds of the invention may be used in
XX antisense therapy as an inhibitor of expression of Damage-specific DNA-
XX binding protein 1, p127. The antisense compounds of the invention are
XX useful for inhibiting the expression of damage specific DNA binding
XX protein 1, p127 in cells or tissues and are also useful for treating an
XX animal having a disease or condition associated with expression of p127,
XX such as a hyperproliferative disorder (e.g., cancer such as breast, skin,
XX liver, or haematopoietic cancer), or hepatitis, by inhibiting the
XX expression of p127. All antisense oligonucleotides of the invention are
XX chimeric oligonucleotides (gapmers) 20 nucleotides in length, composed of
XX a central gap region consisting of ten 2'-deoxynucleotides, which are
XX flanked on both sides (5' and 3' directions) by five- nucleotide wings.
XX The wings are composed of 2'-methoxyethyl (2'-MOE) nucleotides. The
XX internucleoside (backbone) linkages are phosphorothioate (P=S) throughout
XX the oligonucleotide and all cytidine residues are 5-methylcytidines. The
XX present sequence represents a damage-specific DNA binding protein 1, p127
XX antisense oligonucleotide of the invention
XX
XX SQ Sequence 20 BP; 7 A; 5 C; 2 G; 6 T; 0 U; 0 Other;
XX
XX Query Match 58.0%; Score 11.6; DB 6; Length 20;
XX Best Local Similarity 77.8%; Pred. No. 3.4e+04;
XX Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
XX
XX QY 1 GACCGCATAGACTTCTCA 18
XX |||||
XX Db 2 GACCACATAGATCTCTAA 19
XX
XX RESULT 29
XX ADK78853/c
XX ID ADK78853 standard; DNA; 20 BP.
XX
XX AC ADK78853;
XX
XX 20-MAY-2004 (first entry)
XX
XX Chimeric phosphorothioate oligonucleotide to target Nav1.3 #6187.
XX
```





PT New antisense compound targeted to a nucleic acid molecule encoding  
 PT Navl.3, useful for treating a disease or condition associated  
 PT with Navl.3, e.g. pain, seizure disorder such as childhood seizure  
 PT disorder, or ataxia.

PS Claim 4; SEQ ID NO 6186; 417pp; English.

XX The present invention relates to an antisense compound targeted to a  
 CC nucleic acid molecule encoding Navl.3, where the antisense compound  
 CC specifically hybridizes with and inhibits the expression of Navl.3. The  
 CC compound and composition are useful for treating a disease or condition  
 CC associated with Navl.3, e.g. pain including but not limited to  
 CC neuropathic pain, post-herpetic neuralgia, chronic pain, lower back pain,  
 CC diabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain,  
 CC pain from burns, migraine headache, cluster headache, mild-to-moderate  
 CC headache; seizure disorder such as childhood seizure disorder, including  
 CC but not limited to neonatal or infantile epilepsy; or ataxia. The present  
 CC sequence represents a chimeric phosphorothioate oligonucleotide with  
 CC 2'MOE wings and a deoxy gap. Used during the antisense inhibition of  
 CC human Navl.3 expression, the oligonucleotides are designed to target  
 CC different regions of the human Navl.3 RNA.

XX Sequence 20 BP; 7 A; 4 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 58.0%; Score 11.6; DB 12; Length 20;  
 Best Local Similarity 77.8%; Pred. No. 3.4e+04;  
 Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCA 18  
 DB 18 GACTGCTTAGAGTTTCA 1

RESULT 32

AAT55168

ID AAT55168 standard; RNA; 15 BP.

XX AAT55168;

DT 25-MAR-2003 (revised)

DT 22-APR-1997 (first entry)

XX Human relA hammerhead ribozyme target sequence (nt. position 1704).

XX Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;  
 KW gene expression; downregulation; interleukin-5; IL-5; ICAM-1;  
 KW intercellular adhesion molecule; rel A; tumour necrosis factor;  
 KW TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene;  
 KW translocation; chronic myelogenous leukaemia; CML; cancer;  
 KW Philadelphia chromosome; inflammation; autoimmune disease;  
 KW atherosclerosis; myocardial infarction; stroke; restenosis;  
 KW transplant rejection; rheumatoid arthritis; psoriasis;  
 KW myocardial ischaemia; Kawasaki disease; septic shock; HIV;  
 KW human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;  
 KW ss.

OS Homo sapiens.

XX WO9523225-A2.

XX 31-AUG-1995.

PF 23-FEB-1995; 95WO-IB000156.

XX 23-FEB-1994; 94US-00201109.

PR 29-MAR-1994; 94US-00218934.

PR 04-APR-1994; 94US-00222795.

PR 07-APR-1994; 94US-00224483.

PR 15-APR-1994; 94US-00227958.

PR 15-APR-1994; 94US-00228041.

PR 18-MAY-1994; 94US-00245736.

PR 06-JUL-1994; 94US-00271280.

PR 15-AUG-1994; 94US-00291932.

PR 16-AUG-1994; 94US-00291433.  
 PR 17-AUG-1994; 94US-00292620.  
 PR 19-AUG-1994; 94US-00293520.  
 PR 02-SEP-1994; 94US-00300000.  
 PR 08-SEP-1994; 94US-00303039.  
 PR 23-SEP-1994; 94US-00311486.  
 PR 23-SEP-1994; 94US-00311749.  
 PR 28-SEP-1994; 94US-00314397.  
 PR 03-OCT-1994; 94US-00316771.  
 PR 07-OCT-1994; 94US-00319492.  
 PR 11-OCT-1994; 94US-00321993.  
 PR 04-NOV-1994; 94US-00334847.  
 PR 10-NOV-1994; 94US-00337608.  
 PR 28-NOV-1994; 94US-00345516.  
 PR 16-DEC-1994; 94US-00357577.  
 PR 23-DEC-1994; 94US-00363233.  
 PR 30-JAN-1995; 95US-00380734.  
 XX (RIBO-) RIBOZYME PHARM INC.

XX Stinchcomb DT, Chowira B, Dorenzo A, Draper KG, Dudycz LW;  
 PI Grimm S, Karpeisky A, Kisich K, Matulic-Adamic J, Mcswiggen JA;  
 PI Modak A, Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;  
 PI Tracz D, Usman N, Wincott FE, Woolf T;

WPI; 1995-351090/45.

XX Ribozymes having modified bases and methods for producing them - for use  
 PT in inhibiting disease related genes.

XX Claim 2; Page 229; 407pp; English.

XX The present sequence represents a preferred target sequence for an  
 CC enzymatic nucleic acid (i.e. a ribozyme) which cleaves relA mRNA at the  
 CC nucleotide base position indicated in the DE line. The relA gene product  
 CC is a subunit of the transcriptional regulator NF-kappaB and is implicated  
 CC specifically in the induction of inflammatory responses. Regions of the  
 CC mRNA that do not form secondary folding structures and that contain  
 CC potential hammerhead and hairpin ribozyme cleavage sites were identified  
 CC by computer analysis. Ribozymes directed against these mRNA sequences  
 CC were designed and synthesised with modifications that improve their  
 CC nuclease resistance. The ribozymes are designed to cleave the target  
 CC sequences and thereby inhibit relA expression, making them potentially  
 CC useful for treating rheumatoid arthritis, restenosis and asthma as well  
 CC as for increasing tolerance to transplanted tissues. The potential  
 CC immunosuppressive properties of a ribozyme that cleaves relA mRNA means  
 CC that uses are limited to local delivery, acute indications or ex vivo  
 CC treatment. (Updated on 25-MAR-2003 to correct PI field.)

XX Sequence 15 BP; 3 A; 5 C; 3 G; 0 T; 4 U; 0 Other;

Query Match 57.0%; Score 11.4; DB 2; Length 15;

Best Local Similarity 61.5%; Pred. No. 4.2e+04;

Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19

DB 1 AUGGACUUCUCAG 13

RESULT 33

ACA09062

ID ACA09062 standard; RNA; 17 BP.

XX ACA09062;

XX 03-JUN-2003 (first entry)

DE NFKB sub-unit modulating amberzyme substrate #225.

XX Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme;  
 KW G-cleaver; amberzyme; cancer; REL-A activity; breast cancer; human;  
 KW lung cancer; prostate cancer; colorectal cancer; brain cancer;

KW oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;  
 KW cervical cancer; head and neck cancer; ovarian cancer; melanoma;  
 KW lymphoma; glioma; multidrug resistant cancer; REL-A-specific inhibitor;  
 KW chemotherapy; paclitaxel; docetaxel; cisplatin; methotrexate;  
 KW cyclophosphamide; doxorubicin; fluorouracil carboplatin; edatrexate;  
 KW gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes;  
 KW rheumatoid arthritis; restenosis; Crohn's disease; obesity; ischaemia;  
 KW gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;  
 KW transplant/graft rejection; reperfusion injury; glomerulonephritis;  
 KW allergic airway inflammation; inflammatory bowel disease; infection; ss.

XX Homo sapiens.

OS US2002177568-A1.

XX 28-NOV-2002.

XX 23-MAY-2001; 2001US-00864785.

XX 07-DEC-1992; 92US-00987132.

PR 18-MAY-1994; 94US-00245466.

PR 15-AUG-1994; 94US-00291932.

PR 23-DEC-1996; 96US-00779916.

XX (STIN/) STINCHOMB D T.

PA (MCSW/) MCSWIGGEN J.

PA (DRAP/) DRAPER K G.

XX Stinchcomb DT, Mcswiggen J, Draper KG;

PI WPI; 2003-340953/32.

XX Novel enzymatic nucleic acid molecules which down regulates expression of

PT a sequence encoding a subunit of nuclear factor kappa B useful for

PT treating cancer, inflammatory disorders and autoimmune diseases.

XX Claim 3; Page 55; 72pp; English.

XX The invention describes an enzymatic nucleic acid molecule (I) which down  
 CC regulates expression of a sequence encoding a subunit of nuclear factor  
 CC kappa B (NFkB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme  
 CC configuration. The enzymatic nucleic acid molecule is adapted to treat  
 CC cancer and is useful for down-regulating REL-A activity in a cell, for  
 CC treating a patient having a condition associated with the level of REL-A.  
 CC (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in  
 CC the presence of a divalent cation, especially Mg<sup>2+</sup>. The enzymatic and  
 CC antisense nucleic acid molecules are useful for treating breast, lung,  
 CC prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,  
 CC cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or  
 CC multidrug resistant cancer. The method involves use of other drug  
 CC therapies such as monoclonal antibodies, REL-A-specific inhibitors or  
 CC chemotherapy including paclitaxel, docetaxel, cisplatin, methotrexate,  
 CC cyclophosphamide, doxorubicin, fluorouracil carboplatin, edatrexate,  
 CC gemcitabine or radiation therapy. The enzymatic and antisense nucleic  
 CC acid molecules are also useful for treating inflammatory disease such as  
 CC rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,  
 CC obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft  
 CC rejection, gene therapy applications, ischaemia/reperfusion injury  
 CC (central nervous system (CNS) and myocardial), glomerulonephritis,  
 CC sepsis, allergic airway inflammation, inflammatory bowel disease or  
 CC infection. This sequence represents the substrate of a novel enzymatic  
 CC nucleic acid molecule

XX Sequence 17 BP; 4 A; 5 C; 4 G; 0 T; 4 U; 0 Other;

Query Match 57.0%; Score 11.4; DB 8; Length 17;

Best Local Similarity 61.5%; Pred. No. 4.3e+04;

Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 6 CATAGACTTCTCA 18

Db 5 CAUGGACUUCUA 17

RESULT 34

AD147785/c

ID AD147785 standard; DNA; 17 BP.

XX AD147785;

XX 15-APR-2004 (first entry)

DE Human tumour suppression/reversion-related DNA sequence SeqID288.

XX tumour suppression; tumour reversion; apoptosis; virus resistance;  
 KW cytostatic; virucide; neuroprotective; nootropic; neuroleptic; probe;  
 KW primer; PCR; gene chip; antisense; viral disease; tumour;  
 KW cell degeneration; cancer; Alzheimer's disease; schizophrenia; ds; human.

OS Homo sapiens.

XX WO2003025177-A2.

XX 27-MAR-2003.

XX 17-SEP-2002; 2002WO-IB004523.

XX 17-SEP-2001; 2001FR-00011980.

XX (MOLE-) MOLECULAR ENGINES LAB.

PI Telerman A, Amson R, Tuijnder M;

XX WPI; 2003-313354/30.

XX New isolated nucleic acid, useful for treating viral diseases associated  
 PT with tumors and cell degeneration, also related polypeptides, antibodies  
 PT and transfected cells.

XX Disclosure; SEQ ID NO 288; 30pp; French.

XX This invention relates to novel isolated nucleic acid sequences involved  
 CC in the phenomena of tumour suppression, tumour reversion, apoptosis  
 CC and/or resistance to viruses. The invention may be useful for the  
 CC development of compounds with a cytostatic, virucide, neuroprotective,  
 CC nootropic or neuroleptic activity. The DNA sequences may be useful as  
 CC probes and primers for detecting, indentifying, quantifying and/or  
 CC amplifying nucleic acid, for example as one component of a gene chip, in  
 CC vitro as antisense reagents and for production of recombinant  
 CC polypeptides. The invention may therefore be useful for preparation of  
 CC pharmaceuticals for prevention and/or treatment of viral diseases that  
 CC are characterised by development of tumours or cell degeneration,  
 CC specifically cancer but also Alzheimer's disease and schizophrenia. The  
 CC present sequence is that of a nucleic acid sequence of the invention.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/publishedpct\_sequences

XX Sequence 17 BP; 6 A; 4 C; 3 G; 0 T; 0 U; 0 Other;

Query Match 57.0%; Score 11.4; DB 10; Length 17;

Best Local Similarity 92.3%; Pred. No. 4.3e+04;

Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 8 TAGACTTCTCAGA 20

Db 15 TAGAGTTCTCAGA 3

RESULT 35

AAA83653/c

ID AAA83653 standard; DNA; 19 BP.

XX AAA83653;

XX 04-DEC-2000 (first entry)

XX cdk-we-hu ribozyme binding site #128.  
DE Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.  
KW Mammalia.  
XX WO200032765-A2.  
PN  
XX  
XX 08-JUN-2000.  
PD  
XX  
XX 06-DEC-1999; 99WO-US028772.  
PF  
XX  
XX 04-DEC-1998; 98US-0110954P.  
PR  
XX  
XX (IMMU-) IMMUSOL INC.  
PA  
XX  
PI Tritz R, Welch PJ, Barber JR, Robbins JM;  
XX  
XX WPI; 2000-412314/35.  
DR  
XX  
XX New hairpin and hammerhead ribozyme for inhibiting restenosis, cleaves  
PT RNA encoding a cyclin or cell-cycle dependent kinase other than CDK1,  
PCNA and Cyclin B1.  
PT  
XX  
XX Disclosure; Page 65; 109pp; English.  
PS  
XX  
XX The present invention relates to a hairpin or hammerhead ribozyme,  
CC designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase  
CC other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.  
CC Representative examples of ribozyme recognition sites are given in  
CC AAA82415 to AAA86787. The ribozyme of the invention is useful for  
CC inhibiting restenosis by introduction of the ribozyme into cells. The  
CC ribozyme is resistant to endonuclease activity and hence is efficient in  
CC restenosis treatment  
XX  
SQ Sequence 19 BP; 6 A; 3 C; 5 G; 5 T; 0 U; 0 Other;  
XX  
XX Query Match 57.0%; Score 11.4; DB 3; Length 19;  
Best Local Similarity 92.3%; Pred. No. 4.3e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
XX  
XX  
QY 5 GCATAGACTTCTC 17  
Db 13 GCATATACCTTC 1  
XX  
XX  
RESULT 36  
AAA83652/c  
ID AAA83652 standard; DNA; 19 BP.  
AC  
XX  
XX AAA83652;  
AC  
XX  
XX 04-DEC-2000 (first entry)  
DT  
XX  
XX  
DE cdk-we-hu ribozyme binding site #127.  
XX  
XX Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.  
KW Mammalia.  
OS  
XX  
XX WO200032765-A2.  
PN  
XX  
XX 08-JUN-2000.  
PD  
XX  
XX 06-DEC-1999; 99WO-US028772.  
PF  
XX  
XX 04-DEC-1998; 98US-0110954P.  
PR  
XX  
XX (IMMU-) IMMUSOL INC.  
PA  
XX  
XX Tritz R, Welch PJ, Barber JR, Robbins JM;  
PI  
XX

DR WPI; 2000-412314/35.  
XX  
XX New hairpin and hammerhead ribozyme for inhibiting restenosis, cleaves  
PT RNA encoding a cyclin or cell-cycle dependent kinase other than CDK1,  
PCNA and Cyclin B1.  
PT  
XX  
XX Disclosure; Page 65; 109pp; English.  
PS  
XX  
XX The present invention relates to a hairpin or hammerhead ribozyme,  
CC designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase  
CC other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.  
CC Representative examples of ribozyme recognition sites are given in  
CC AAA82415 to AAA86787. The ribozyme of the invention is useful for  
CC inhibiting restenosis by introduction of the ribozyme into cells. The  
CC ribozyme is resistant to endonuclease activity and hence is efficient in  
CC restenosis treatment  
XX  
SQ Sequence 19 BP; 7 A; 2 C; 5 G; 5 T; 0 U; 0 Other;  
XX  
XX Query Match 57.0%; Score 11.4; DB 3; Length 19;  
Best Local Similarity 92.3%; Pred. No. 4.3e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
XX  
XX  
QY 5 GCATAGACTTCTC 17  
Db 15 GCATATACCTTC 3  
XX  
XX  
RESULT 37  
AAH58814/c  
ID AAH58814 standard; DNA; 19 BP.  
XX  
XX  
AC AAH58814;  
AC  
XX  
XX 10-SEP-2001 (first entry)  
DT  
XX  
XX  
DE Cdk-we-hu ribozyme binding site SEQ ID NO:1238.  
XX  
XX Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;  
KW recognition site; target; ribozyme binding site; eye disease; vulvrary;  
KW proliferative disease; skin disease; psoriasis; diabetic retinopathy;  
KW cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;  
KW matrix metalloproteinase; growth factor; reductase; scarring; cytostatic;  
KW antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;  
KW antisickling; ophthalmological; keratolytic; gene therapy; viral wart;  
KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;  
KW basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;  
KW sickle cell retinopathy; ss.  
XX  
XX Homo sapiens.  
OS  
XX Synthetic.  
OS  
XX WO200130362-A2.  
PN  
XX  
XX 03-MAY-2001.  
PD  
XX  
XX 26-OCT-2000; 2000WO-US029500.  
PF  
XX  
XX 26-OCT-1999; 99US-0161532P.  
PR  
XX  
XX (IMMU-) IMMUSOL INC.  
PA  
XX  
XX Robbins JM, Tritz R;  
PI  
XX  
XX WPI; 2001-300427/31.  
DR  
XX  
XX Treating proliferative skin or eye diseases and scarring, using ribozymes  
PT that cleave RNA encoding cytokines involved in inflammation, matrix  
PT metalloproteinases, growth factors and cell-cycle dependent kinases.  
XX  
XX Example 1; Page 162; 408pp; English.  
PS  
XX  
XX The present invention describes a method for treating a proliferative  
CC

CC skin or eye disease and scarring. The method involves administering a  
 CC ribozyme (I) which cleaves RNA encoding a cytokine involved in  
 CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle  
 CC independent kinase, growth factor or a reductase, or administering a  
 CC nucleic acid molecule (II) comprising a promoter operably linked to a  
 CC nucleic acid segment encoding (I). (I) can have antipsoriatic,  
 CC dermatological, cytostatic, antiseborrheic, antidiabetic, antisickling,  
 CC ophthalmological, vulnary, keratolytic and virucide activities, and  
 CC cleaves RNA encoding cytokine involved in inflammation. (I) can be used  
 CC in gene therapy. (I) and (II) are useful for treating proliferative skin  
 CC diseases such as psoriasis, atopic dermatitis, actinic keratosis,  
 CC squamous or basal cell carcinoma and viral or seborrheic wart. They can  
 CC also be used for treating proliferative eye diseases such as diabetic  
 CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of  
 CC prematurity and retinal detachment, and for treating and preventing  
 CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn  
 CC scar. AAH57577 to AAH62099 represent sequences used in the  
 CC exemplification of the present invention  
 XX  
 SQ Sequence 19 BP; 7 A; 2 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 57.0%; Score 11.4; DB 5; Length 19;  
 Best Local Similarity 92.3%; Pred. No. 4.3e+04;  
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTC 17  
 DB 15 GCATATACCTCTC 3

RESULT 38  
 AAH58815/C  
 ID AAH58815 standard; DNA; 19 BP.  
 AC AAH58815;  
 XX  
 DT 10-SEP-2001 (first entry)  
 XX  
 DE Cdk-we-hu ribozyme binding site SEQ ID NO:1239.  
 XX  
 KW Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;  
 KW recognition site; target; ribozyme binding site; eye disease; vulnary;  
 KW proliferative disease; skin disease; psoriasis; diabetic retinopathy;  
 KW cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;  
 KW matrix metalloproteinase; growth factor; reductase; scarring; cytostatic;  
 KW antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;  
 KW antisickling; ophthalmological; keratolytic; gene therapy; viral wart;  
 KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;  
 KW basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;  
 KW sickle cell retinopathy; ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 PN W0200130362-A2.  
 XX  
 PD 03-MAY-2001.  
 XX  
 XX 26-OCT-2000; 2000WO-US029500.  
 XX  
 XX 26-OCT-1999; 99US-0161532P.  
 XX  
 XX (IMMU-) IMMUSOL INC.  
 XX  
 XX Robbins JM, Tritz R;  
 XX  
 XX WPI; 2001-300427/31.  
 XX  
 XX Treating proliferative skin or eye diseases and scarring, using ribozymes  
 XX that cleave RNA encoding cytokines involved in inflammation, matrix  
 XX metalloproteinases, growth factors and cell-cycle dependent kinases.  
 XX  
 XX Example 1; Page 162; 408pp; English.

XX  
 CC The present invention describes a method for treating a proliferative  
 CC skin or eye disease and scarring. The method involves administering a  
 CC ribozyme (I) which cleaves RNA encoding a cytokine involved in  
 CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle  
 CC independent kinase, growth factor or a reductase, or administering a  
 CC nucleic acid molecule (II) comprising a promoter operably linked to a  
 CC nucleic acid segment encoding (I). (I) can have antipsoriatic,  
 CC dermatological, cytostatic, antiseborrheic, antidiabetic, antisickling,  
 CC ophthalmological, vulnary, keratolytic and virucide activities, and  
 CC cleaves RNA encoding cytokine involved in inflammation. (I) can be used  
 CC in gene therapy. (I) and (II) are useful for treating proliferative skin  
 CC diseases such as psoriasis, atopic dermatitis, actinic keratosis,  
 CC squamous or basal cell carcinoma and viral or seborrheic wart. They can  
 CC also be used for treating proliferative eye diseases such as diabetic  
 CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of  
 CC prematurity and retinal detachment, and for treating and preventing  
 CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn  
 CC scar. AAH57577 to AAH62099 represent sequences used in the  
 CC exemplification of the present invention  
 XX  
 SQ Sequence 19 BP; 6 A; 3 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 57.0%; Score 11.4; DB 5; Length 19;  
 Best Local Similarity 92.3%; Pred. No. 4.3e+04;  
 Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTC 17  
 DB 13 GCATATACCTCTC 1

RESULT 39  
 ADQ61886/C  
 ID ADQ61886 standard; RNA; 19 BP.  
 AC ADQ61886;  
 XX  
 DT 09-SEP-2004 (first entry)  
 XX  
 DE Anti-KCNH1 siRNA SEQ ID NO:1588.  
 XX  
 KW ss; siRNA; gene silencing; Bcl-2; optimised; short interfering RNA;  
 KW RNA interference.  
 XX  
 OS Synthetic.  
 XX  
 PN W02004045543-A2.  
 XX  
 PD 03-JUN-2004.  
 XX  
 XX 14-NOV-2003; 2003WO-US036787.  
 XX  
 XX 14-NOV-2002; 2002US-0426137P.  
 XX  
 XX 10-SEP-2003; 2003US-0502050P.  
 XX  
 XX (DHAR-) DHARMACON INC.  
 XX  
 XX Anastasia K, Angela R, Devin L, William M, Stephen S;  
 XX  
 XX WPI; 2004-420527/39.  
 XX  
 XX Selecting siRNA by selecting an siRNA molecule of 19-25 nucleoside bases  
 XX by selecting a target gene and measuring the functionality of the  
 XX nucleotide sequences that are complementary to a stretch of nucleotides  
 XX of the target sequence.  
 XX  
 XX Example 12; SEQ ID NO 1588; 199pp; English.  
 XX  
 XX The invention relates to a novel method for selecting siRNA (short  
 XX interfering RNA) comprising selecting an siRNA molecule of 19-25  
 XX nucleoside bases by selecting a target gene and measuring the  
 XX functionality of sequences of 19-25 nucleotides in length that are

CC substantially complementary to a stretch of nucleotides of the target  
CC sequence, where the functionality is dependent upon non-target specific  
CC criteria. Also claimed are methods for gene-silencing, developing an  
CC siRNA algorithm for selecting siRNA, selecting an siRNA with improved  
CC functionality, selecting hyperfunctional siRNA, an siRNA molecule  
CC effective at silencing Bcl-2, and a kit for gene silencing comprising the  
CC siRNA. The siRNA molecule comprises a sequence substantially similar to a  
CC sequence consisting of GGAGAGUGAGUGAGUA; GAAGUACUCCAUUAAG;  
CC GUACGACACCGGAGUA; AGAUGAGUAGAGUACAU; UGAAGACUCGUCAGUUU;  
CC CAUGGCGCCUCUGUUUGA; UCGGCGCCUCUGUUUGAUU; GAGAUAGUGAAGAGUACA;  
CC GGAGAUAGUGAAGUAGUAC; and GAAGACUCGUCAGUUUG. The siRNA molecule  
CC comprises a sense strand and an anti-sense strand. The siRNA molecule  
CC comprises a hairpin. The siRNA molecule comprises between 18 and 30 base  
CC pairs. The kit comprises at least two siRNA, comprising a first optimised  
CC siRNA and a second optimised siRNA. The method is useful in selecting  
CC siRNA for generating a gene silencing reagent. The present sequence is  
CC used in the exemplification of the invention.

XX  
SQ Sequence 19 BP; 6 A; 2 C; 5 G; 0 T; 6 U; 0 Other;

Query Match 57.0%; Score 11.4; DB 12; Length 19;  
Best Local Similarity 92.3%; Pred. No. 4.3e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 7 ATAGACTTCTCAG 19  
Db 14 ATAGACTTCTCAG 2

RESULT 40  
AAX77133/C  
ID AAX77133 standard; DNA; 20 BP.  
XX  
AC AAX77133;  
XX  
DT 03-AUG-1999 (first entry)  
XX  
DE PCR primer 92-5'.  
XX  
KW Cellular senescence; modulator; GC6 gene; senescent gene expression;  
KW pGC6; human; PCR primer; ss.  
XX  
OS Synthetic.  
XX  
PN WO925878-A2.  
XX  
PD 27-MAY-1999.  
XX  
PF 19-NOV-1998; 98WO-US024996.  
XX  
PR 19-NOV-1997; 97US-00974180.  
XX  
PA (GERO-) GERON CORP.  
XX  
PI Funk W;  
XX  
DR WPI; 1999-347496/29.  
XX  
PT New human GC6 gene, useful for identifying agents for treating diseases  
PT and/or conditions associated with cell senescence.  
XX  
PS Example 5; Page 74; 79pp; English.  
XX  
CC The invention relates to methods for modulating and identifying cellular  
CC senescence. Recombinant expression vectors comprising a recombinant  
CC polynucleotide corresponding to a polynucleotide in a human GC6 gene, are  
CC useful for altering senescent gene expression. The vectors and host cells  
CC comprising the vectors are useful for identifying agents that prevent or  
CC modulate senescent gene expression. The polynucleotides are useful for  
CC producing the protein, pGC6 and nucleic acid derivatives. The proteins  
CC encoded are useful for raising antibodies specific for pGC6, which are  
CC useful for isolating pGC6, and for detecting cells comprising pGC6 in  
CC complex cell mixtures. The characterization of the polynucleotides enable

CC the identification of therapeutic agents that identify and distinguish  
CC between young and senescent cells. This enables treatment of aging  
CC diseases induced or exacerbated by cellular senescence

XX  
SQ Sequence 20 BP; 7 A; 6 C; 4 G; 3 T; 0 U; 0 Other;  
Query Match 57.0%; Score 11.4; DB 2; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.4e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 5 GCATGACTTCTC 17  
Db 13 GCATTGACTTCTC 1

Search completed: August 12, 2005, 11:15:32  
Job time : 244 secs



## ALIGNMENTS

```
RESULT 1
US-09-198-452A-2812
; Sequence 2812, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griflais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 2812
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-2812

Query Match          69.0%; Score 13.8; DB 4; Length 20;
Best Local Similarity 88.2%; Pred. No. 6e+02; 2; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GACCGCATAGACTTCTC 17
        |||||
Db       3 GACCGCATAACTTATC 19

RESULT 2
US-10-007-010-48/c
; Sequence 48, Application US/10007010
; Patent No. 6828151
; GENERAL INFORMATION:
; APPLICANT: Alexander H. Borchers
; APPLICANT: Kenneth W. Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF HCK EXPRESSION
; FILE REFERENCE: RTS-0345
; CURRENT APPLICATION NUMBER: US/10/007,010
; CURRENT FILING DATE: 2001-12-04
; NUMBER OF SEQ ID NOS: 87
; SEQ ID NO 48
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-007-010-48

Query Match          66.0%; Score 13.2; DB 4; Length 20;
Best Local Similarity 83.3%; Pred. No. 1.3e+03;
Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      2 ACCGCATAGACTTCTCAG 19
        |||||
Db       20 AACTCATTGACTTCTCAG 3

RESULT 3
US-09-106-038A-75/c
; Sequence 75, Application US/09106038A
; Patent No. 6007995
; GENERAL INFORMATION:
; APPLICANT: Brenda F. Baker and Lex M. Cowser
; TITLE OF INVENTION: ANTISENSE MODULATION OF TNFR1
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 91
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Isis Pharmaceuticals, Inc.
```

```
; STREET: 2292 Paraday Avenue
; CITY: Carlsbad
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 92008
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch disk, 1.44 Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/106,038A
; FILING DATE: June 26, 1998
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Laurel Spear Bernstein
; REGISTRATION NUMBER: 37,280
; REFERENCE/DOCKET NUMBER: RTS-0004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (760) 931-9200
; TELEFAX: (760) 603-3820
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-106-038A-75

Query Match          61.0%; Score 12.2; DB 3; Length 18;
Best Local Similarity 82.4%; Pred. No. 4.2e+03;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      4 CGCATAGACTTCTCAGA 20
        |||
Db       18 CGCCAGTCTTCTCAGA 2

RESULT 4
US-07-922-723A-60
; Sequence 60, Application US/07922723A
; Patent No. 5369004
; GENERAL INFORMATION:
; APPLICANT: Dra. Mihael H. Polymetopoulos
; APPLICANT: and Carl R. Merrill
; TITLE OF INVENTION: FIVE HIGHLY INFORMATIVE
; TITLE OF INVENTION: REPEAT POLYMORPHIC DNA MARKERS
; NUMBER OF SEQUENCES: 73
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lowe, Price, LeBlanc & Becker
; STREET: Suite 300, 99 Canal Center Plaza
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22314
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: DOS Text File
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/922,723A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: D.J. Mills
; REGISTRATION NUMBER: 34506
; REFERENCE/DOCKET NUMBER: 717081B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703 684 1111
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20
```



TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-07-922-723A-60

Query Match 60.0%; Score 12; DB 1; Length 20;  
Best Local Similarity 75.0%; Pred. No. 5.5e+03;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCAGA 20  
|||||  
Db 1 GACCCACAGCCTATTTCAGA 20

## RESULT 5

US-07-799-828C-60  
Sequence 60, Application US/07799828C  
Patent No. 5378602

GENERAL INFORMATION:  
APPLICANT: Drs. Carl R. Merrill and  
Mihael H. Polymeropoulos  
TITLE OF INVENTION: TWENTY SEVEN HIGHLY INFORMATIVE  
TITLE OF INVENTION: MICROSATELLITE REPEAT  
TITLE OF INVENTION: POLYMORPHIC DNA MARKERS  
NUMBER OF SEQUENCES: 63  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lowe, Price, LeBlanc & Becker  
STREET: Suite 300, 99 Canal Center Plaza  
CITY: Alexandria  
STATE: Virginia  
COUNTRY: USA  
ZIP: 22314

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: DOS Text File  
CURRENT APPLICATION DATA: US/07/799,828C  
FILING DATE: 19911127  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: D.J. Mills  
REGISTRATION NUMBER: 34,506  
REFERENCE/DOCKET NUMBER: 717081A  
TELEPHONE: 703 684 1111  
INFORMATION FOR SEQ ID NO: 60:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20  
TYPE: NUCLEIC ACID  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)

US-07-799-828C-60

Query Match 60.0%; Score 12; DB 1; Length 20;  
Best Local Similarity 75.0%; Pred. No. 5.5e+03;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCAGA 20  
|||||  
Db 1 GACCCACAGCCTATTTCAGA 20

## RESULT 6

US-07-952-277A-60  
Sequence 60, Application US/07952277A  
Patent No. 5861504

GENERAL INFORMATION:  
APPLICANT: Drs. Mihael H. Polymeropoulos  
and Carl R. Merrill

TITLE OF INVENTION: ELEVEN HIGHLY INFORMATIVE  
TITLE OF INVENTION: REPEAT POLYMORPHIC DNA MARKERS  
NUMBER OF SEQUENCES: 85  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lowe, Price, LeBlanc & Becker  
STREET: Suite 300, 99 Canal Center Plaza  
CITY: Alexandria  
STATE: Virginia  
COUNTRY: USA  
ZIP: 22314

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: DOS Text File  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/952,277A  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: D.J. Mills  
REGISTRATION NUMBER: 34506  
REFERENCE/DOCKET NUMBER: 717081C  
TELEPHONE: 703 684 1111  
INFORMATION FOR SEQ ID NO: 60:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)

US-07-952-277A-60

Query Match 60.0%; Score 12; DB 2; Length 20;  
Best Local Similarity 75.0%; Pred. No. 5.5e+03;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCAGA 20  
|||||  
Db 1 GACCCACAGCCTATTTCAGA 20

## RESULT 7

US-09-038-637-113  
Sequence 113, Application US/09038637  
Patent No. 6235470

GENERAL INFORMATION:  
APPLICANT: Sidransky, David  
TITLE OF INVENTION: DETECTION OF NEOPLASIM BY ANALYSIS OF SALIVA  
NUMBER OF SEQUENCES: 195  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson P.C.  
STREET: 4225 Executive Square, Suite 1400  
CITY: La Jolla  
STATE: CA  
COUNTRY: USA  
ZIP: 92037

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: FastSeq for Windows Version 2.0b  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/038,637  
FILING DATE: 10-MAR-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/579,233  
FILING DATE: 28-DEC-1995  
APPLICATION NUMBER: 08/152,313  
FILING DATE: 12-NOV-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Haile, Lisa A.

REGISTRATION NUMBER: 38,347  
REFERENCE/DOCKET NUMBER: 07265/146001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619/678-5070  
TELEFAX: 619/678-5099  
INFORMATION FOR SEQ ID NO: 113:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Genomic DNA  
US-09-038-637-113

Query Match 60.0%; Score 12; DB 3; Length 20;  
Best Local Similarity 75.0%; Pred. No. 5.5e+03;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GACCGCATAGACTTCTCAGA 20  
|||||  
Db 1 GACCCACAGCCATTTCAGA 20

## RESULT 8

US-08-716-459-1/c  
Sequence 1, Application US/08716459  
Patent No. 5821062  
GENERAL INFORMATION:  
APPLICANT: KOMAI, Koichiro  
APPLICANT: KANEKO, Hideo  
APPLICANT: NAKATSUKA, Iwao  
TITLE OF INVENTION: OLIGONUCLEOTIDE FOR USE IN CHECKING  
TITLE OF INVENTION: PRESENCE OR ABSENCE OF MUTATION IN  
TITLE OF INVENTION: HUMAN-DERIVED CYTOCHROME P4501C18 GENE  
NUMBER OF SEQUENCES: 13  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Birch, Stewart, Kolasch & Birch, LLP  
STREET: P.O. Box 747  
CITY: Falls Church  
STATE: Virginia  
COUNTRY: USA  
ZIP: 22040-0747  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb  
COMPUTER: IBM PC  
OPERATING SYSTEM: IBM DOS Version 5.00  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/716,459  
FILING DATE: 27 SEPTEMBER 1996  
CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP-059385/1994  
APPLICATION NUMBER: JP-059386/1994  
FILING DATE: 29-03-1994  
FILING DATE: 29-03-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: SVENSSON, Leonard R.  
REGISTRATION NUMBER: 30,330  
REFERENCE/DOCKET NUMBER: 20-4081PCT  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 205-8000  
TELEFAX: (703) 205-8050  
TELEX: 248345  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Other nucleic acid synthetic DNA  
US-08-716-459-1

Query Match 59.0%; Score 11.8; DB 1; Length 18;  
Best Local Similarity 86.7%; Pred. No. 6.9e+03;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 6 CATAGACTTCTCAGA 20  
|||||  
Db 16 CATAGACTTTTGAGA 2

## RESULT 9

US-08-819-912-8  
Sequence 8, Application US/08819912  
Patent No. 5795722  
GENERAL INFORMATION:  
APPLICANT: Lacroix, Jean-Michel  
APPLICANT: Dunn, James M.  
TITLE OF INVENTION: METHOD AND KIT FOR QUANTITATION AND  
TITLE OF INVENTION: NUCLEIC ACID SEQUENCING OF NUCLEIC ACID ANALYTES IN A SAMPLE  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Oppedahl & Larson  
STREET: 1992 Commerce Street Suite 309  
CITY: Yorktown  
STATE: NY  
COUNTRY: US  
ZIP: 10598  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage  
COMPUTER: IBM compatible  
OPERATING SYSTEM: MS DOS  
SOFTWARE: Word Perfect  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/819,912  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Larson, Marina T.  
REGISTRATION NUMBER: 32,038  
REFERENCE/DOCKET NUMBER: VGEN.P-039US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (914) 245-3252  
TELEFAX: (914) 962-4330  
TELEX:  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
HYPOTHETICAL: NO  
ANTI-SENSE: yes  
FRAGMENT TYPE: internal  
ORIGINAL SOURCE:  
ORGANISM: Chlamydia trachomatis  
FEATURE:  
OTHER INFORMATION: amplification primer CT1431F for cryptic  
OTHER INFORMATION: plasmid  
US-08-819-912-8

Query Match 59.0%; Score 11.8; DB 1; Length 20;  
Best Local Similarity 86.7%; Pred. No. 7e+03;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 GCATAGACTTCTCAG 19  
|||||  
Db 3 GCATAAACTTCAG 17

## RESULT 10

US-08-291-932A-289  
; Sequence 289, Application US/08291932A  
; Patent No. 5658780  
; GENERAL INFORMATION:  
; APPLICANT: Stinchcomb, Dan T.  
; APPLICANT: Draper, Kenneth G.  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: RIBOZYME TREATMENT OF  
; TITLE OF INVENTION: DISEASES OR CONDITIONS  
; TITLE OF INVENTION: RELATED TO LEVELS OF  
; TITLE OF INVENTION: NF-KB  
; NUMBER OF SEQUENCES: 830  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/291,932A  
; FILING DATE: August 15, 1994  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; PRIOR APPLICATION DATA: including application  
; PRIOR APPLICATION DATA: described below:  
; APPLICATION NUMBER: 08/245,466  
; FILING DATE: May 18, 1994  
; APPLICATION NUMBER: 07/987,132  
; FILING DATE: December 7, 1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 208/157  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 289:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 15 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-08-291-932A-289

Query Match 57.0%; Score 11.4; DB 1; Length 15;  
Best Local Similarity 61.5%; Pred. No. 1.1e+04;  
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19  
Db 1 AUGGACUUCUCAG 13

RESULT 11  
US-08-434-511-4/c  
; Sequence 4, Application US/08434511  
; Patent No. 6057114  
; GENERAL INFORMATION:  
; APPLICANT: Akong, Anthony  
; APPLICANT: Harpold, Michael  
; APPLICANT: Velicelebi, Gonul  
; APPLICANT: Brust, Paul  
; TITLE OF INVENTION: AUTOMATED ANALYSIS EQUIPMENT AND ASSAY  
; TITLE OF INVENTION: METHOD FOR DETECTING CELL SURFACE PROTEIN FUNCTION USING SAME

; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Brown, Martin, Haller & McClain  
; STREET: 1660 Union Street  
; CITY: San Diego  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 92101-2926  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq Version 1.5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/434,511  
; FILING DATE: 04-MAY-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/244,985  
; FILING DATE: 20-JUN-1994  
; APPLICATION NUMBER: PCT/US92/11090  
; FILING DATE: 18-DEC-1992  
; APPLICATION NUMBER: 07/812,254  
; FILING DATE: 20-DEC-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Seidman, Stephanie L.  
; REGISTRATION NUMBER: 33,779  
; REFERENCE/DOCKET NUMBER: 6362-9738  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 619-238-0999  
; TELEFAX: 619-238-0062  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Genomic DNA  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; FRAGMENT TYPE:  
; ORIGINAL SOURCE:  
; US-08-434-511-4

Query Match 57.0%; Score 11.4; DB 3; Length 17;  
Best Local Similarity 92.3%; Pred. No. 1.1e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19  
Db 13 ATAGATTCTCAG 1

RESULT 12  
US-08-229-150-4/c  
; Sequence 4, Application US/08229150  
; Patent No. 6127133  
; GENERAL INFORMATION:  
; APPLICANT: Akong, Michael A.  
; APPLICANT: Harpold, Michael M.  
; APPLICANT: Velicelebi, G.  
; APPLICANT: Brust, Paul  
; TITLE OF INVENTION: AUTOMATED ANALYSIS EQUIPMENT AND ASSAY METHOD FOR DETECTING CELL  
; TITLE OF INVENTION: PROTEIN FUNCTION USING SAME  
; FILE REFERENCE: 24735-51505B  
; CURRENT APPLICATION NUMBER: US/08/229,150  
; CURRENT FILING DATE: 1994-04-18  
; EARLIER APPLICATION NUMBER: 07/812,254  
; EARLIER FILING DATE: 1991-12-20  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4

```
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: Oligonucleotide used for screening of products having
; OTHER INFORMATION: EcoRI site adjacent to initiation codon of human
; OTHER INFORMATION: HMI coding region
US-08-229-150-4

Query Match          57.0%; Score 11.4; DB 3; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.1e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19
Db 13 ATAGAATTCTCAG 1

RESULT 13
5401629-5/c
; Patent No. 5401629
; APPLICANT: HARPOLD, MICHAEL M.;BRUST, PAUL
; TITLE OF INVENTION: ASSAY METHODS AND COMPOSITIONS USEFUL
; FOR MEASURING THE TRANSDUCTION OF AN INTRACELLULAR SIGNAL
; NUMBER OF SEQUENCES: 5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/563,751
; FILING DATE: 07-AUG-1990
; SEQ ID NO:5:
; LENGTH: 17
5401629-5

Query Match          57.0%; Score 11.4; DB 6; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.1e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19
Db 13 ATAGAATTCTCAG 1

RESULT 14
5401629-5/c
; Patent No. 5401629
; APPLICANT: HARPOLD, MICHAEL M.;BRUST, PAUL
; TITLE OF INVENTION: ASSAY METHODS AND COMPOSITIONS USEFUL
; FOR MEASURING THE TRANSDUCTION OF AN INTRACELLULAR SIGNAL
; NUMBER OF SEQUENCES: 5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/563,751
; FILING DATE: 07-AUG-1990
; SEQ ID NO:5:
; LENGTH: 17
5401629-5

Query Match          57.0%; Score 11.4; DB 6; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.1e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19
Db 13 ATAGAATTCTCAG 1

RESULT 15
US-09-696-791-1238/c
; Sequence 1238, Application US/09696791
; Patent No. 6770633
; GENERAL INFORMATION:
; APPLICANT: Robbins, Joan M.
; TITLE OF INVENTION: RIBOZYME THERAPY FOR THE TREATMENT OF PROLIFERATIVE
; APPLICANT: Tritz, Richard
; TITLE OF INVENTION: RIBOZYME THERAPY FOR THE TREATMENT OF PROLIFERATIVE
; FILE REFERENCE: 480124.407
; CURRENT APPLICATION NUMBER: US/09/696,791
; CURRENT FILING DATE: 2000-10-25
; NUMBER OF SEQ ID NOS: 4523
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1238
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Cdk-we-hu ribozyme binding site
US-09-696-791-1238

Query Match          57.0%; Score 11.4; DB 4; Length 19;
Best Local Similarity 92.3%; Pred. No. 1.1e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTC 17
Db 15 GCATATACTTCTC 3

RESULT 16
US-09-696-791-1239/c
; Sequence 1239, Application US/09696791
; Patent No. 6770633
; GENERAL INFORMATION:
; APPLICANT: Robbins, Joan M.
; APPLICANT: Tritz, Richard
; TITLE OF INVENTION: RIBOZYME THERAPY FOR THE TREATMENT OF PROLIFERATIVE
; TITLE OF INVENTION: SKIN AND EYE DISEASES
; FILE REFERENCE: 480124.407
; CURRENT APPLICATION NUMBER: US/09/696,791
; CURRENT FILING DATE: 2000-10-25
; NUMBER OF SEQ ID NOS: 4523
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1239
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Cdk-we-hu ribozyme binding site
US-09-696-791-1239

Query Match          57.0%; Score 11.4; DB 4; Length 19;
Best Local Similarity 92.3%; Pred. No. 1.1e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTC 17
Db 13 GCATATACTTCTC 1

RESULT 17
US-08-974-180-35/c
; Sequence 35, Application US/08974180
; Patent No. 6025194
; GENERAL INFORMATION:
; APPLICANT: Funk, Walter
; TITLE OF INVENTION: Methods for Modulating and Identifying
; TITLE OF INVENTION: Cellular Senescence
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Geron Corporation
; STREET: 230 Constitution Drive
; CITY: Menlo Park
; STATE: California
; COUNTRY: USA
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
```

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/974,180  
FILING DATE: 19-NOV-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Kaster, Kevin R.  
REGISTRATION NUMBER: 32,704  
REFERENCE/DOCKET NUMBER: 206  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 473-7779  
TELEFAX: (650) 473-8654  
INFORMATION FOR SEQ ID NO: 35:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
FEATURE:  
NAME/KEY: -  
LOCATION: 1..20  
OTHER INFORMATION: /note= "primer 92-5"  
US-08-974-180-35

Query Match 57.0%; Score 11.4; DB 3; Length 20;  
Best Local Similarity 92.3%; Pred. No. 1.1e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTC 17  
DB 13 GCATGACTTCTC 1

RESULT 18  
US-10-148-806-20/c  
Sequence 20, Application US/10148806  
Patent No. 6762042  
GENERAL INFORMATION:  
APPLICANT: Metzger, Michael  
APPLICANT: Liu, Xiaomei  
TITLE OF INVENTION: DNA MOLECULES ENCODING HUMAN NHL, A DNA  
FILE REFERENCE: 20585P  
CURRENT APPLICATION NUMBER: US/10/148,806  
CURRENT FILING DATE: 2002-06-05  
PRIOR APPLICATION NUMBER: US00/33065  
PRIOR FILING DATE: 2000-12-09  
PRIOR APPLICATION NUMBER: 60/169,970  
PRIOR FILING DATE: 1999-12-09  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 20  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: oligonucleotide  
US-10-148-806-20

Query Match 57.0%; Score 11.4; DB 4; Length 20;  
Best Local Similarity 92.3%; Pred. No. 1.1e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 8 TAGACTTCTCAGA 20  
DB 17 TGGACTTCTCAGA 5

RESULT 19  
US-10-148-806-21

Sequence 21, Application US/10148806  
Patent No. 6762042  
GENERAL INFORMATION:  
APPLICANT: Bai, Chang  
APPLICANT: Metzger, Michael  
APPLICANT: Liu, Xiaomei  
TITLE OF INVENTION: DNA MOLECULES ENCODING HUMAN NHL, A DNA  
FILE REFERENCE: 20585P  
CURRENT APPLICATION NUMBER: US/10/148,806  
CURRENT FILING DATE: 2002-06-05  
PRIOR APPLICATION NUMBER: US00/33065  
PRIOR FILING DATE: 2000-12-09  
PRIOR APPLICATION NUMBER: 60/169,970  
PRIOR FILING DATE: 1999-12-09  
NUMBER OF SEQ ID NOS: 38  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 21  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: oligonucleotide  
US-10-148-806-21

Query Match 57.0%; Score 11.4; DB 4; Length 20;  
Best Local Similarity 92.3%; Pred. No. 1.1e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 8 TAGACTTCTCAGA 20  
DB 4 TGGACTTCTCAGA 16

RESULT 20  
US-09-422-978-4697  
Sequence 4697, Application US/09422978  
Patent No. 6537751  
GENERAL INFORMATION:  
APPLICANT: Cohen, Daniel  
APPLICANT: Blumenfeld, Marta  
TITLE OF INVENTION: Biallelic markers for use in constructing a high density...  
FILE REFERENCE: GENSET.020CP1  
CURRENT APPLICATION NUMBER: US/09/422,978  
CURRENT FILING DATE: 1999-10-20  
EARLIER APPLICATION NUMBER: US 09/298,850  
EARLIER FILING DATE: 1999-04-21  
EARLIER APPLICATION NUMBER: US 60/109,732  
EARLIER FILING DATE: 1998-11-23  
EARLIER APPLICATION NUMBER: US 60/082,614  
EARLIER FILING DATE: 1998-04-21  
NUMBER OF SEQ ID NOS: 11796  
SEQ ID NO 4697  
LENGTH: 18  
TYPE: DNA  
ORGANISM: Homo Sapiens  
FEATURE:  
NAME/KEY: primer\_bind  
LOCATION: 1..18  
OTHER INFORMATION: upstream amplification primer 99-17105 for SEQ 763,  
US-09-422-978-4697

Query Match 56.0%; Score 11.2; DB 4; Length 18;  
Best Local Similarity 81.2%; Pred. No. 1.4e+04;  
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTCAGA 20  
DB 1 GCACAGACTTCAAGA 16

RESULT 21

US-07-977-284A-113  
; Sequence 113, Application US/07977284A  
; Patent No. 555988  
; GENERAL INFORMATION:  
; APPLICANT: Prockop, Darwin J.  
; APPLICANT: Ala-Kokko, Leena  
; APPLICANT: Williams, Charlene J.  
; APPLICANT: Ritvaniemi, Pertti  
; APPLICANT: Baldwin, Clinton  
; APPLICANT: Hopkinson, Ian  
; APPLICANT: Ahmad, Nilofer Nina  
; TITLE OF INVENTION: METHODS OF DETECTING A GENETIC  
; TITLE OF INVENTION: PREDISPOSITION FOR OSTEOARTHRITIS  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz & No. 5559888iris  
; STREET: One Liberty Place, 46th floor  
; CITY: Philadelphia  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19103  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WordPerfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/977,284A  
; FILING DATE: 13-NOV-1992  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Deluca, Mark  
; REGISTRATION NUMBER: 33,229  
; REFERENCE/DOCKET NUMBER: TJU-0697  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (215) 568-3100  
; TELEFAX: (215) 568-3439  
; INFORMATION FOR SEQ ID NO: 113:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20  
; TYPE: NUCLEIC ACID  
; STRANDEDNESS: SINGLE  
; TOPOLOGY: LINEAR  
; ANTI-SENSE: NO  
US-07-977-284A-113  
Query Match 56.0%; Score 11.2; DB 1; Length 20;  
Best Local Similarity 81.2%; Pred. No. 1.5e+04;  
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 2 ACCGCATAGACTTCTC 17  
||| ||| ||| ||| |||  
Db 4 ACTGCAGGGACTTCTC 19  
RESULT 22  
US-08-256-426B-113  
; Sequence 113, Application US/08256426B  
; Patent No. 5948611  
; GENERAL INFORMATION:  
; APPLICANT: Prockop, Darwin J.  
; APPLICANT: Ala-Kokko, Leena  
; APPLICANT: Williams, Charlene J.  
; APPLICANT: Ritvaniemi, Pertti  
; APPLICANT: Baldwin, Clinton  
; APPLICANT: Hopkinson, Ian  
; APPLICANT: Ahmad, Nilofer Nina  
; TITLE OF INVENTION: Methods of Detecting A Genetic  
; NUMBER OF SEQUENCES: 293  
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5948611ris  
; STREET: One Liberty Place - 46th Floor  
; CITY: Philadelphia  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19103  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: DISKETTE, 3.5 INCH  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows 3.1  
; SOFTWARE: WORDPERFECT 6.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/256,426B  
; FILING DATE: 03-FEB-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US93/10964  
; FILING DATE: 12-NOV-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/977,284  
; FILING DATE: 13-NOV-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mark Deluca  
; REGISTRATION NUMBER: 33,229  
; REFERENCE/DOCKET NUMBER: TJU-1082  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (215) 568-3100  
; TELEFAX: (215) 568-3439  
; INFORMATION FOR SEQ ID NO: 113:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20  
; TYPE: NUCLEIC ACID  
; STRANDEDNESS: SINGLE  
; TOPOLOGY: LINEAR  
; ANTI-SENSE: NO  
US-08-256-426B-113  
Query Match 56.0%; Score 11.2; DB 2; Length 20;  
Best Local Similarity 81.2%; Pred. No. 1.5e+04;  
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 2 ACCGCATAGACTTCTC 17  
||| ||| ||| ||| |||  
Db 4 ACTGCAGGGACTTCTC 19  
RESULT 23  
US-09-249-730-204/c  
; Sequence 204, Application US/09249730  
; Patent No. 6121000  
; GENERAL INFORMATION:  
; APPLICANT: WRIGHT, Jim A.  
; APPLICANT: YOUNG, Aiping H.  
; TITLE OF INVENTION: Antitumor Antisense Sequences Directed Against R1 and  
; TITLE OF INVENTION: R2 Components of Ribonucleotide Reductase  
; FILE REFERENCE: 032396-040  
; CURRENT APPLICATION NUMBER: US/09/249,730  
; CURRENT FILING DATE: 1999-02-11  
; NUMBER OF SEQ ID NOS: 220  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 204  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Human  
US-09-249-730-204  
Query Match 56.0%; Score 11.2; DB 3; Length 20;  
Best Local Similarity 81.2%; Pred. No. 1.5e+04;  
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 4 CGCATAGACTTCTCAG 19  
||| ||| ||| ||| |||  
Db 20 CGCAGAGTCTTGTCTCAG 5

```
RESULT 24
US-09-359-756-36/c
; Sequence 36, Application US/09359756
; Patent No. 6168950
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: William Gaarde
; APPLICANT: Donna T. Ward
; APPLICANT: Lex M. Cowser
; TITLE OF INVENTION: ANTISENSE MODULATION OF MEXK1 EXPRESSION
; FILE REFERENCE: RTS-0077
; CURRENT APPLICATION NUMBER: US/09/359,756
; CURRENT FILING DATE: 1999-07-23
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-359-756-36

Query Match          56.0%; Score 11.2; DB 3; Length 20;
Best Local Similarity 81.2%; Pred. No. 1.5e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTCAGA 20
Db 19 GCATAGACTTCTCAGGA 4

RESULT 25
US-09-198-452A-3744/c
; Sequence 3744, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 3744
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-3744

Query Match          56.0%; Score 11.2; DB 4; Length 20;
Best Local Similarity 81.2%; Pred. No. 1.5e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 ACCGCATAGACTTCTC 17
Db 20 ATCTCAGAGACTTCTC 5

RESULT 26
US-09-249-247-204/c
; Sequence 204, Application US/09249247
; Patent No. 6593305
; GENERAL INFORMATION:
; APPLICANT: WRIGHT, Jim A.
; APPLICANT: YOUNG, Aiping H.
; TITLE OF INVENTION: Antitumor Antisense Sequences Directed Against R1 and
; TITLE OF INVENTION: R2 Components of Ribonucleotide Reductase
; FILE REFERENCE: 032396-023
; CURRENT APPLICATION NUMBER: US/09/249,247
; CURRENT FILING DATE: 1999-02-11

; EARLIER APPLICATION NUMBER: US 60/023,040
; EARLIER FILING DATE: 1996-08-02
; EARLIER APPLICATION NUMBER: US 60/039,959
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: US 08/904,901
; EARLIER FILING DATE: 1997-08-01
; NUMBER OF SEQ ID NOS: 220
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 204
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Human
US-09-249-247-204

Query Match          56.0%; Score 11.2; DB 4; Length 20;
Best Local Similarity 81.2%; Pred. No. 1.5e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 CGCATAGACTTCTCAG 19
Db 20 CGCAGAGTCTTGTCTCAG 5

RESULT 27
US-09-975-123-28/c
; Sequence 28, Application US/09975123
; Patent No. 6750019
; GENERAL INFORMATION:
; APPLICANT: Susan M. Freier
; TITLE OF INVENTION: ANTISENSE MODULATION OF INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN
; TITLE OF INVENTION: EXPRESSION
; FILE REFERENCE: RTS-0253
; CURRENT APPLICATION NUMBER: US/09/975,123
; CURRENT FILING DATE: 2001-10-09
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 28
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-975-123-28

Query Match          56.0%; Score 11.2; DB 4; Length 20;
Best Local Similarity 81.2%; Pred. No. 1.5e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCT 16
Db 17 GACCGCAAGGATTCT 2

RESULT 28
US-09-544-398B-32/c
; Sequence 32, Application US/09544398B
; Patent No. 6770461
; GENERAL INFORMATION:
; APPLICANT: Carulli, John P.
; APPLICANT: Little, Randall D.
; APPLICANT: Recker, Robert R.
; APPLICANT: Johnson, Mark L.
; TITLE OF INVENTION: High bone mass gene of 11q13.3
; FILE REFERENCE: 032796-013
; CURRENT APPLICATION NUMBER: US/09/544,398B
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: US 09/229,319
; PRIOR FILING DATE: 1999-01-13
; PRIOR APPLICATION NUMBER: US 60/071,449
; PRIOR FILING DATE: 1998-01-13
; PRIOR APPLICATION NUMBER: US 60/105,511
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 641
; SOFTWARE: FastSEQ for Windows Version 4.0
```

```
; SEQ ID NO 32
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial sequence is a primer.
US-09-544-398B-32

Query Match          55.0%; Score 11; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.8e+04;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 GACTTCTCAGA 20
Db 17 GACTTCTCAGA 7

RESULT 29
US-09-544-398B-629/c
; Sequence 629, Application US/09544398B
; Patent No. 6770461
; GENERAL INFORMATION:
; APPLICANT: Carulli, John P.
; APPLICANT: Little, Randall D.
; APPLICANT: Recker, Robert R.
; APPLICANT: Johnson, Mark L.
; TITLE OF INVENTION: High bone mass gene of 11q13.3
; FILE REFERENCE: 032796-013
; CURRENT APPLICATION NUMBER: US/09/544,398B
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: US 09/229,319
; PRIOR FILING DATE: 1999-01-13
; PRIOR APPLICATION NUMBER: US 60/071,449
; PRIOR FILING DATE: 1998-01-13
; PRIOR APPLICATION NUMBER: US 60/105,511
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 641
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 629
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial Sequence is a primer.
; Patent No. 6770461
US-09-544-398B-629

Query Match          55.0%; Score 11; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.8e+04;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 GACTTCTCAGA 20
Db 17 GACTTCTCAGA 7

RESULT 30
US-09-543-771B-32/c
; Sequence 32, Application US/09543771B
; Patent No. 6780609
; GENERAL INFORMATION:
; APPLICANT: Carulli, John P.
; APPLICANT: Little, Randall D.
; APPLICANT: Recker, Robert R.
; APPLICANT: Johnson, Mark L.
; TITLE OF INVENTION: High bone mass gene of 11q13.3
; FILE REFERENCE: 032796-014
; CURRENT APPLICATION NUMBER: US/09/543,771B
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/229,319
; PRIOR FILING DATE: 1999-01-13
; PRIOR APPLICATION NUMBER: US 60/071,449
; PRIOR FILING DATE: 1998-01-13

; SEQ ID NO 32
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial sequence is a primer.
US-09-543-771B-32

Query Match          55.0%; Score 11; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.8e+04;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 GACTTCTCAGA 20
Db 17 GACTTCTCAGA 7

RESULT 31
US-09-543-771B-629/c
; Sequence 629, Application US/09543771B
; Patent No. 6780609
; GENERAL INFORMATION:
; APPLICANT: Carulli, John P.
; APPLICANT: Little, Randall D.
; APPLICANT: Recker, Robert R.
; APPLICANT: Johnson, Mark L.
; TITLE OF INVENTION: High bone mass gene of 11q13.3
; FILE REFERENCE: 032796-014
; CURRENT APPLICATION NUMBER: US/09/543,771B
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/229,319
; PRIOR FILING DATE: 1999-01-13
; PRIOR APPLICATION NUMBER: US 60/071,449
; PRIOR FILING DATE: 1998-01-13
; PRIOR APPLICATION NUMBER: US 60/105,511
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 641
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 629
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial Sequence is a primer.
; Patent No. 6780609
US-09-543-771B-629

Query Match          55.0%; Score 11; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.8e+04;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 GACTTCTCAGA 20
Db 17 GACTTCTCAGA 7

RESULT 32
US-08-357-791-4
; Sequence 4, Application US/08357791
; Patent No. 5652102
; GENERAL INFORMATION:
; APPLICANT: Fratomico, Pina M.
; APPLICANT: Sackitey, Solomon K.
; APPLICANT: Wiedmann, Martin
; TITLE OF INVENTION: Assay for Enterohemorrhagic Escherichia
; TITLE OF INVENTION: coli 0157:H7 by the Polymerase Chain Reaction
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Janelle S. Graeter
```



STREET: Bldg. 005, Rm 411, BARC-West  
CITY: Beltsville  
STATE: Maryland  
COUNTRY: U.S.A.  
ZIP: 20705  
COMPUTER READABLE FORM:  
MEDIUM TYPE: IBM PC compatible  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/357,791  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Graeter, Janelle S.  
REGISTRATION NUMBER: 35,024  
REFERENCE/DOCKET NUMBER: D.N. 0079.94  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 301-504-5676  
TELEFAX: 301-504-5060  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: circular  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
ORGANISM: Escherichia coli  
STRAIN: 0157:H7  
US-08-357-791-4

Query Match 55.0%; Score 11; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 1.9e+04;  
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 ATAGACTTCTC 17  
DB 7 ATAGACTTCTC 17

RESULT 33  
US-09-081-646-202  
; Sequence 202, Application US/09081646  
; Patent No. 6333152  
; GENERAL INFORMATION:  
; APPLICANT: Kinzler, Kenneth  
; APPLICANT: Vogelstein, Bert  
; APPLICANT: Zhang, Lin  
; APPLICANT: Zhou, Wei  
; TITLE OF INVENTION: Gene Expression Profiles in No. 6333152mal and  
; FILE REFERENCE: 01107.74664  
; CURRENT APPLICATION NUMBER: US/09/081,646  
; CURRENT FILING DATE: 1998-05-20  
; EARLIER APPLICATION NUMBER: 60/047,352  
; EARLIER FILING DATE: 1997-05-21  
; NUMBER OF SEQ ID NOS: 871  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 202  
; LENGTH: 15  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-081-646-202

Query Match 54.0%; Score 10.8; DB 3; Length 15;  
Best Local Similarity 85.7%; Pred. No. 2.3e+04;  
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 CATAGACTTCTCAG 19

DB 1 CATGACTTCTCAG 14

RESULT 34  
US-09-081-646-743  
; Sequence 743, Application US/09081646  
; Patent No. 6333152  
; GENERAL INFORMATION:  
; APPLICANT: Kinzler, Kenneth  
; APPLICANT: Vogelstein, Bert  
; APPLICANT: Zhou, Lin  
; APPLICANT: Zhang, Wei  
; TITLE OF INVENTION: Gene Expression Profiles in No. 6333152mal and  
; FILE REFERENCE: 01107.74664  
; CURRENT APPLICATION NUMBER: US/09/081,646  
; CURRENT FILING DATE: 1998-05-20  
; EARLIER APPLICATION NUMBER: 60/047,352  
; EARLIER FILING DATE: 1997-05-21  
; NUMBER OF SEQ ID NOS: 871  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 743  
; LENGTH: 15  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-081-646-743

Query Match 54.0%; Score 10.8; DB 3; Length 15;  
Best Local Similarity 85.7%; Pred. No. 2.3e+04;  
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 CATAGACTTCTCAG 19  
DB 1 CATGACTTCTCAG 14

RESULT 35  
US-09-124-398-5  
; Sequence 5, Application US/09124398A  
; Patent No. 6770456  
; GENERAL INFORMATION:  
; APPLICANT: Boon-Palieu, Thierry  
; APPLICANT: Coulie, Pierre  
; TITLE OF INVENTION: ENDOGENOUS RETROVIRUS TUMOR ASSOCIATED NUCLEIC ACIDS AND ANTIGENS  
; FILE REFERENCE: L0461/7033  
; CURRENT APPLICATION NUMBER: US/09/124,398A  
; CURRENT FILING DATE: 1998-07-29  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: FastSeq for Window Version 3.0  
; SEQ ID NO 5  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-124-398-5

Query Match 54.0%; Score 10.8; DB 4; Length 18;  
Best Local Similarity 85.7%; Pred. No. 2.3e+04;  
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 CCGCATAGACTTCT 16  
DB 4 CCACATAGACTTCT 17

RESULT 36  
US-09-659-791A-37/c  
; Sequence 37, Application US/09659791A  
; Patent No. 6383808  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia  
; APPLICANT: Susan M. Freier  
; TITLE OF INVENTION: ANTISENSE MODULATION OF CLUSTERIN EXPRESSION

FILE REFERENCE: RTS-0156  
 CURRENT APPLICATION NUMBER: US/09/659,791A  
 CURRENT FILING DATE: 2000-09-11  
 NUMBER OF SEQ ID NOS: 90  
 SEQ ID NO 37  
 LENGTH: 20  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Antisense Oligonucleotide  
 US-09-659-791A-37

Query Match 54.0%; Score 10.8; DB 3; Length 20;  
 Best Local Similarity 85.7%; Pred. No. 2.4e+04;  
 Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ACCGCATAGCTTC 15  
 |||||  
 Db 20 ACCGCATAGCTTC 7

RESULT 37  
 US-08-985-162-399  
 ; Sequence 399, Application US/08985162  
 ; Patent No. 6057156  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Akhtar, Saghir  
 ; APPLICANT: Fell, Patricia  
 ; APPLICANT: McSwiggen, James  
 ; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT  
 ; TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
 ; TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
 ; TITLE OF INVENTION: FACTOR RECEPTORS  
 ; NUMBER OF SEQUENCES: 1877  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Lyon & Lyon  
 ; STREET: 633 West Fifth Street  
 ; STREET: Suite 4700  
 ; CITY: Los Angeles  
 ; STATE: California  
 ; COUNTRY: U.S.A.  
 ; ZIP: 90071-2066  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
 ; MEDIUM TYPE: storage  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: IBM P.C. DOS 5.0  
 ; SOFTWARE: FastSeq for Windows 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/985,162  
 ; FILING DATE: 04 December 1997  
 ; CLASSIFICATION: 514  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 60/036,476  
 ; FILING DATE: 31 January 1997  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Warburg, Richard J.  
 ; REGISTRATION NUMBER: 32,327  
 ; REFERENCE/DOCKET NUMBER: 230/107  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (213) 489-1600  
 ; TELEFAX: (213) 955-0440  
 ; TELEX: 67-3510  
 ; INFORMATION FOR SEQ ID NO: 399:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 17 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; US-08-985-162-399

Query Match 53.0%; Score 10.6; DB 3; Length 17;  
 Best Local Similarity 70.8%; Pred. No. 3e+04;

Matches 12; Conservative 1; Mismatches 4; Indels 0; Gaps 0;  
 QY 1 GACCCATAGACTTCTC 17  
 |||||  
 Db 1 GACGCAUAGACGACAC 17

RESULT 38  
 US-08-584-040-5340/c  
 ; Sequence 5340, Application US/08584040  
 ; Patent No. 6346398  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pavco, Pamela  
 ; APPLICANT: McSwiggen, James  
 ; APPLICANT: Stinchcomb, Dan T.  
 ; APPLICANT: Escobedo, Jaime  
 ; TITLE OF INVENTION: METHOD AND REAGENT FOR THE  
 ; TITLE OF INVENTION: TREATMENT OF DISEASES OR  
 ; TITLE OF INVENTION: CONDITIONS RELATED TO LEVELS  
 ; TITLE OF INVENTION: OF VASCULAR ENDOTHELIAL  
 ; TITLE OF INVENTION: GROWTH FACTOR  
 ; NUMBER OF SEQUENCES: 8502  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Lyon & Lyon  
 ; STREET: 633 West Fifth Street  
 ; STREET: Suite 4700  
 ; CITY: Los Angeles  
 ; STATE: California  
 ; COUNTRY: U.S.A.  
 ; ZIP: 90071-2066  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
 ; MEDIUM TYPE: storage  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: IBM P.C. DOS 5.0  
 ; SOFTWARE: Word Perfect 5.1  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/584,040  
 ; FILING DATE: January 11, 1996  
 ; CLASSIFICATION: 514  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 60/005,974  
 ; FILING DATE: October 26, 1995  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Warburg, Richard J.  
 ; REGISTRATION NUMBER: 32,327  
 ; REFERENCE/DOCKET NUMBER: 218/064  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (213) 489-1600  
 ; TELEFAX: (213) 955-0440  
 ; TELEX: 67-3510  
 ; INFORMATION FOR SEQ ID NO: 5340:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 17 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; US-08-584-040-5340

Query Match 53.0%; Score 10.6; DB 3; Length 17;  
 Best Local Similarity 76.5%; Pred. No. 3e+04;  
 Matches 13; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 CCGCATAGACTTCTCAG 19  
 |||||  
 Db 17 CCGCAAGAAGTACAG 1

RESULT 39  
 US-09-371-772B-2242/c  
 ; Sequence 2242, Application US/0937172B  
 ; Patent No. 6566127  
 ; GENERAL INFORMATION:

TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 399:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-401-063-399

Query Match 53.0%; Score 10.6; DB 4; Length 17;  
Best Local Similarity 70.8%; Pred. No. 3e+04; 4; Indels 0; Gaps 0;  
Matches 12; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTC 17  
DB 1 GACGCAUAGACGACAC 17

Search completed: August 12, 2005, 12:13:23  
Job time : 98 secs

APPLICANT: Ribozyme Pharmaceuticals, Inc.  
APPLICANT: Pavco, Pam  
APPLICANT: McSwiggen, Jim  
APPLICANT: Stinchcomb, Dan  
APPLICANT: Escobedo, Jaime  
TITLE OF INVENTION: Method and Reagent for the Treatment of Diseases or Conditions Re  
FILE REFERENCE: MBH00.876-J (237/198)  
CURRENT APPLICATION NUMBER: US/09/371,772B  
CURRENT FILING DATE: 1999-08-10  
PRIOR APPLICATION NUMBER: US 60/005,974  
PRIOR FILING DATE: 1995-10-26  
PRIOR APPLICATION NUMBER: US 08/584,040  
PRIOR FILING DATE: 1996-01-08  
NUMBER OF SEQ ID NOS: 14225  
SOFTWARE: Patentin version 3.0  
SEQ ID NO 2242  
LENGTH: 17  
TYPE: RNA  
ORGANISM: Mus sp.  
US-09-371-772B-2242

Query Match 53.0%; Score 10.6; DB 4; Length 17;  
Best Local Similarity 76.5%; Pred. No. 3e+04; 4; Indels 0; Gaps 0;  
Matches 13; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 CCGCATAGACTTCTCAG 19  
DB 17 CCGCAAGAAGTCACAG 1

RESULT 40  
US-09-401-063-399  
Sequence 399, Application US/09401063  
Patent No. 6623962  
GENERAL INFORMATION:  
APPLICANT: Akhtar, Saghir  
APPLICANT: Fell, Patricia  
APPLICANT: McSwiggen, James  
TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT  
TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED  
TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH  
TITLE OF INVENTION: FACTOR RECEPTORS  
NUMBER OF SEQUENCES: 1877  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSeq for Windows 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/401,063  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/985,162  
FILING DATE: 04 December 1997  
APPLICATION NUMBER: 60/036,476  
FILING DATE: 31 January 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 230/107  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600

Query Match 53.0%; Score 10.6; DB 4; Length 17;  
Best Local Similarity 76.5%; Pred. No. 3e+04; 4; Indels 0; Gaps 0;  
Matches 13; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 CCGCATAGACTTCTCAG 19  
DB 17 CCGCAAGAAGTCACAG 1

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Result No.	Score	Query #	Match	Length	DB	ID	Description
1	13.8	69.0	20	17	US-10-289-762-2812		Sequence 2812, Appl
C	13.2	66.0	20	15	US-10-007-010-48		Sequence 48, Appl
	12.6	63.0	20	21	US-10-956-250-12		Sequence 12, Appl
	12.4	62.0	17	9	US-09-864-785-499		Sequence 499, Appl
5	12.4	62.0	17	9	US-09-864-785-2106		Sequence 2106, Appl
C	12.2	61.0	18	22	US-10-702-817-75		Sequence 75, Appl
	12.2	61.0	17	17	US-10-365-742-187		Sequence 187, Appl
6	12.2	61.0	17	17	US-10-365-742-187		Sequence 187, Appl

C 81 11.2 56.0 20 21 US-10-968-432-44  
 C 82 11.2 56.0 20 22 US-10-516-505-108  
 C 83 11.2 56.0 20 22 US-10-516-505-185  
 C 84 11.2 55.0 18 17 US-10-374-979-32  
 C 85 11 55.0 18 18 US-10-182-936A-32  
 C 86 11 55.0 18 19 US-10-731-739-32  
 C 87 11 55.0 18 19 US-10-731-739-629  
 C 88 11 55.0 18 20 US-10-477-238A-32  
 C 89 11 55.0 18 20 US-10-477-238A-629  
 C 90 11 55.0 18 20 US-10-680-287A-32  
 C 91 11 55.0 18 20 US-10-680-287A-629  
 C 92 11 55.0 18 21 US-10-477-173-32  
 C 93 11 55.0 18 21 US-10-477-173-629  
 C 94 11 55.0 18 21 US-10-477-173-855  
 C 95 11 55.0 18 22 US-10-834-377-32  
 C 96 11 55.0 18 22 US-10-834-377-629  
 C 97 11 55.0 19 21 US-10-485-999-81  
 C 98 11 55.0 19 21 US-10-813-747-19  
 C 99 11 55.0 20 19 US-10-688-706-705  
 C 100 11 55.0 20 19 US-10-688-706-1211

# ALIGNMENTS

RESULT 1  
 US-10-289-762-2812  
 ; Sequence 2812, Application US/10289762  
 ; Publication No. US20040006218A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Griffiths, R.  
 ; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments  
 ; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention  
 ; FILE REFERENCE: 9710-003-999  
 ; CURRENT APPLICATION NUMBER: US/10/289,762  
 ; CURRENT FILING DATE: 2003-03-27  
 ; NUMBER OF SEQ ID NOS: 6849  
 ; SEQ ID NO 2812  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Chlamydia pneumoniae  
 US-10-289-762-2812

Query Match 69.0%; Score 13.8; DB 17; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 2.4e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTC 17  
 DB 3 GACCGCATAAACTTATC 19

RESULT 2  
 US-10-007-010-48/c  
 ; Sequence 48, Application US/10007010  
 ; Publication No. US20030125275A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Alexander H. Borchers  
 ; APPLICANT: Kenneth W. Dobie  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF HCK EXPRESSION  
 ; FILE REFERENCE: RTS-0345  
 ; CURRENT APPLICATION NUMBER: US/10/007,010  
 ; CURRENT FILING DATE: 2001-12-04  
 ; NUMBER OF SEQ ID NOS: 87  
 ; SEQ ID NO 48  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense Oligonucleotide  
 US-10-007-010-48

Query Match 66.0%; Score 13.2; DB 15; Length 20;  
 Best Local Similarity 83.3%; Pred. No. 5.1e+03;  
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 ACCGCATAGACTTCTCAG 19  
 DB 20 AACTCATTGACTTCTCAG 3

RESULT 3  
 US-10-956-250-12  
 ; Sequence 12, Application US/10956250  
 ; Publication No. US20050090430A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Feder, John N.  
 ; Schatzman, Randall C.  
 ; Teuchihashi, Zenta  
 ; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR  
 ; DIAGNOSIS AND TREATMENT OF IRON MISREGULATION D  
 ; ISEASES  
 ; NUMBER OF SEQUENCES: 13  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Pennie & Edmonds LLP  
 ; STREET: 1155 Avenue of the Americas  
 ; CITY: New York  
 ; STATE: NY  
 ; COUNTRY: USA  
 ; ZIP: 10036-2811  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; OPERATING SYSTEM: Windows  
 ; SOFTWARE: FastSeq for Windows Version 2.0b  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/10/956,250  
 ; FILING DATE: 01-Oct-2004  
 ; CLASSIFICATION: <Unknown>  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/920,559  
 ; FILING DATE: 27-Aug-1997  
 ; APPLICATION NUMBER: US 08/652,265  
 ; FILING DATE: 23-MAY-1996  
 ; APPLICATION NUMBER: US 08/834,497  
 ; FILING DATE: 04-APR-1997  
 ; APPLICATION NUMBER: US 08/866,211  
 ; FILING DATE: 13-JUN-1997  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Poissant, Brian M  
 ; REGISTRATION NUMBER: 28,462  
 ; REFERENCE/DOCKET NUMBER: 8907-0062-999  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 650-493-4935  
 ; TELEFAX: 650-493-5556  
 ; INFORMATION FOR SEQ ID NO: 12:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 20 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 12:  
 US-10-956-250-12

Query Match 63.0%; Score 12.6; DB 21; Length 20;  
 Best Local Similarity 78.9%; Pred. No. 1.1e+04;  
 Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCAG 19  
 DB 2 GACGACACAGACTTCACCG 20

RESULT 4

US-09-864-785-499

Sequence 499, Application US/09864785

Patent No. US20020177568A1

GENERAL INFORMATION:

APPLICANT: Ribozyme Pharmaceuticals, Inc.

APPLICANT: Stinchcomb, Dan

APPLICANT: Draper, Ken

APPLICANT: McSwiggen, Jim

TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to NF-Kappa B

TITLE OF INVENTION: Levels of NF-Kappa B

FILE REFERENCE: 400/022 (MBHB00-812-D)

CURRENT APPLICATION NUMBER: US/09/864,785

CURRENT FILING DATE: 2001-05-23

NUMBER OF SEQ ID NOS: 3929

SOFTWARE: PatentIn version 3.0

SEQ ID NO 499

LENGTH: 17

TYPE: RNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid

US-09-864-785-499

Query Match 52.0%; Score 12.4; DB 9; Length 17;

Best Local Similarity 64.3%; Pred. No. 1.4e+04;

Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 6 CATAGACTTCTCAG 19

DB 2 CAUGGACUUCUCAG 15

RESULT 5

US-09-864-785-2106

Sequence 2106, Application US/09864785

Patent No. US20020177568A1

GENERAL INFORMATION:

APPLICANT: Ribozyme Pharmaceuticals, Inc.

APPLICANT: Stinchcomb, Dan

APPLICANT: Draper, Ken

APPLICANT: McSwiggen, Jim

TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to NF-Kappa B

TITLE OF INVENTION: Levels of NF-Kappa B

FILE REFERENCE: 400/022 (MBHB00-812-D)

CURRENT APPLICATION NUMBER: US/09/864,785

CURRENT FILING DATE: 2001-05-23

NUMBER OF SEQ ID NOS: 3929

SOFTWARE: PatentIn version 3.0

SEQ ID NO 2106

LENGTH: 17

TYPE: RNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid

US-09-864-785-2106

Query Match 62.0%; Score 12.4; DB 9; Length 17;

Best Local Similarity 64.3%; Pred. No. 1.4e+04;

Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 6 CATAGACTTCTCAG 19

DB 4 CAUGGACUUCUCAG 17

RESULT 6

US-10-702-817-75/c

Sequence 75, Application US/10702817

Publication No. US20040147471A1

GENERAL INFORMATION:

APPLICANT: Hong Zhang

TITLE OF INVENTION: ANTISENSE MODULATION OF TNFR1 EXPRESSION

FILE REFERENCE: ISPH-0797

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; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 73759
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-741-600-73759

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Query Match	61.0%	Score	12.2	DB	21	Length	19
Best Local Similarity	82.4%	Pred. No.	1.8e+04				
Matches	14	Conservative	0	Mismatches	3	Indels	0
Gaps	0						

Qy 1 GACCGCATAGACTTCTC 17  
||| ||| ||| ||| ||| |||  
Db 1 GACAGCACAGACTTCAC 17

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RESULT 9
US-10-190-366-196/c
; Sequence 196, Application US/10190366
; Publication No. US20040006031A1
; GENERAL INFORMATION:
; APPLICANT: Nicholas M. Dean
; APPLICANT: Susan M. Freier
; APPLICANT: Kenneth W. Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF HMG-COA REDUCTASE EXPRESSION
; FILE REFERENCE: PTS-0023
; CURRENT APPLICATION NUMBER: US/10/190,366
; CURRENT FILING DATE: 2002-07-02
; NUMBER OF SEQ ID NOS: 409
; SEQ ID NO 196
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-190-366-196

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Query Match	61.0%	Score 12.2;	DB 17;
Best Local Similarity	82.4%	Pred. NO. 1.8e+04;	Length 20;
Matches 14;	Conservative	0;	Mismatches 3;
			Indels 0;
			Gaps 0;

Qy 4 CGCATAGACTTCTCAGA 20  
Db 18 CACAGAGACTCCTCAGA 2

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RESULT 10
US-10-190-366-389
; Sequence 389, Application US/10190366
; Publication No. US20040006031A1
; GENERAL INFORMATION:
; APPLICANT: Nicholas M. Dean
; APPLICANT: Susan M. Freier
; APPLICANT: Kenneth W. Doble
; TITLE OF INVENTION: ANTISENSE MODULATION OF HMG-COA REDUCTASE EXPRESSION
; FILE REFERENCE: PTS-0023
; CURRENT APPLICATION NUMBER: US/10/190.366
; CURRENT FILING DATE: 2002-07-02
; NUMBER OF SEQ ID NOS: 409
; SEQ ID NO 389
; LENGTH: 20
; TYPE: DNA
; ORGANISM: M. musculus
; FEATURE:
US-10-190-366-389

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Query Match	Score	DB	Length
Best Local Similarity	61.0%	12.2	20
Matches	82.4%	Pred. No. 1.8e+04	
14; Conservative	0	Mismatches 3	Indels 0
			Gaps 0

Qy 4 CGCATAGACTTCTCAGA 20  
| | | | | | | | | |  
Db 3 CACAGAGACTCCTCAGA 19

RESULT 11  
US-10-956-250-11  
; Sequence 11, Application US/10956250  
; Publication No. US20050090430A1  
; GENERAL INFORMATION:  
; APPLICANT: Feder, John N.  
; Schatzman, Randall C.  
; Tsuchihashi, Zenta  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR  
; DIAGNOSIS AND TREATMENT OF IRON MISREGULATION D  
; ISEASES

NUMBER OF SEQUENCES: 13  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pennie & Edmonds LLP  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: NY  
COUNTRY: USA  
ZIP: 10036-2811  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows  
SOFTWARE: FastSeq for Windows Version 2.0b  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/956,250  
FILING DATE: 01-Oct-2004  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/920,559  
FILING DATE: 27-Aug-1997  
APPLICATION NUMBER: US 08/652,265  
FILING DATE: 23-MAY-1996  
APPLICATION NUMBER: US 08/834,497  
FILING DATE: 04-APR-1997  
APPLICATION NUMBER: US 08/866,211  
FILING DATE: 13-JUN-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Poissant, Brian M  
REGISTRATION NUMBER: 28,462  
REFERENCE/DOCKET NUMBER: 8907-0062-999  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-493-4935  
TELEFAX: 650-493-5556  
TELEX: 66141 PENNIE  
INFORMATION FOR SEQ ID NO: 11:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
SEQUENCE DESCRIPTION: SEQ ID NO: 11:  
US-10-956-250-11

Query Match	61.0%	Score 12.2;	DB 21;	Length 20;
Best Local Similarity	82.4%	Pred. No. 1.8e+04;		
Matches 14;	Conservative	0;	Mismatches 3;	Indels 0;
Gaps	0;			

Qy	1	GACGCGATAGACTTCTC	17
Db	2	GACAGCACAGACTTCAC	18

RESULT 12  
US-09-863-806-113  
; Sequence 113, Application US/09863806  
; Publication No. US20020197608A1



GENERAL INFORMATION:  
APPLICANT: Sidransky, David  
TITLE OF INVENTION: DETECTION OF NEOPLASIM BY ANALYSIS OF SALIVA  
NUMBER OF SEQUENCES: 195  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson P.C.  
STREET: 4225 Executive Square, Suite 1400  
CITY: La Jolla  
STATE: CA  
COUNTRY: USA  
ZIP: 92037  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: FastSeq for Windows Version 2.0b  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/863,806  
FILING DATE: 22-May-2001  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/038,637  
FILING DATE: <Unknown>  
APPLICATION NUMBER: 08/152,313  
FILING DATE: 12-NOV-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Haile, Lisa A.  
REGISTRATION NUMBER: 38,347  
REFERENCE/DOCKET NUMBER: 07265/146001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619/678-5070  
TELEFAX: 619/678-5099  
INFORMATION FOR SEQ ID NO: 113:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Genomic DNA  
SEQUENCE DESCRIPTION: SEQ ID NO: 113:  
US-09-863-806-113

Query Match 60.0%; Score 12; DB 9; Length 20;  
Best Local Similarity 75.0%; Pred. No. 2.3e+04;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCAGA 20  
|||||  
Db 1 GACCCACAGCCTATTTCAGA 20

RESULT 13  
US-10-754-478-113  
Sequence 113, Application US/10754478  
Publication No. US2005009040A1  
GENERAL INFORMATION:  
APPLICANT: Sidransky, David  
TITLE OF INVENTION: DETECTION OF NEOPLASIM BY ANALYSIS OF SALIVA  
NUMBER OF SEQUENCES: 195  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson P.C.  
STREET: 4225 Executive Square, Suite 1400  
CITY: La Jolla  
STATE: CA  
COUNTRY: USA  
ZIP: 92037  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: FastSeq for Windows Version 2.0b  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/754,478  
FILING DATE: 09-Jan-2004

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/038,637  
FILING DATE: 10-MAR-1998  
APPLICATION NUMBER: 08/579,233  
FILING DATE: 28-DEC-1995  
APPLICATION NUMBER: 08/152,313  
FILING DATE: 12-NOV-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Haile, Lisa A.  
REGISTRATION NUMBER: 38,347  
REFERENCE/DOCKET NUMBER: 07265/146001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619/678-5070  
TELEFAX: 619/678-5099  
INFORMATION FOR SEQ ID NO: 113:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Genomic DNA  
SEQUENCE DESCRIPTION: SEQ ID NO: 113:  
US-10-754-478-113

Query Match 60.0%; Score 12; DB 21; Length 20;  
Best Local Similarity 75.0%; Pred. No. 2.3e+04;  
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCAGA 20  
|||||  
Db 1 GACCCACAGCCTATTTCAGA 20

RESULT 14  
US-10-923-329-137/c  
Sequence 137, Application US/10923329  
Publication No. US20050164968A1  
GENERAL INFORMATION:  
APPLICANT: Sirna Therapeutics, Inc.  
APPLICANT: Richards, Ivan  
APPLICANT: McSwiggen, James  
TITLE OF INVENTION: RNA Interference Mediated Inhibition of ADAM33 Gene Expression  
TITLE OF INVENTION: Using Short Interfering Nucleic Acid (siNA)  
FILE REFERENCE: 400/225 (MBHB04-672)  
CURRENT APPLICATION NUMBER: US/10/923,329  
CURRENT FILING DATE: 2004-08-20  
PRIOR APPLICATION NUMBER: PCT/US04/16390  
PRIOR FILING DATE: 2004-05-24  
PRIOR APPLICATION NUMBER: US 10/826,966  
PRIOR FILING DATE: 2004-04-16  
PRIOR APPLICATION NUMBER: PCT/US04/13456  
PRIOR FILING DATE: 2004-04-30  
PRIOR APPLICATION NUMBER: US 10/780,447  
PRIOR FILING DATE: 2004-02-13  
PRIOR APPLICATION NUMBER: US 60/292,217  
PRIOR FILING DATE: 2001-05-18  
PRIOR APPLICATION NUMBER: US 60/362,016  
PRIOR FILING DATE: 2002-03-06  
PRIOR APPLICATION NUMBER: US 60/363,883  
PRIOR FILING DATE: 2001-07-20  
PRIOR APPLICATION NUMBER: US 60/311,865  
PRIOR FILING DATE: 2001-08-13  
PRIOR APPLICATION NUMBER: US 10/727,780  
PRIOR FILING DATE: 2003-12-03  
PRIOR APPLICATION NUMBER: US 60/543,480  
PRIOR FILING DATE: 2004-02-10  
Remaining prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 514  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 137  
LENGTH: 19  
TYPE: RNA  
ORGANISM: Artificial Sequence



PRIOR APPLICATION NUMBER: US 10/444,853  
PRIOR FILING DATE: 2003-05-23  
PRIOR APPLICATION NUMBER: PCT/US03/05346  
PRIOR FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: PCT/US03/05028  
PRIOR FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: US 60/358580  
PRIOR FILING DATE: 2002-02-20  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 955  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 46  
LENGTH: 19  
TYPE: RNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: siNA sense  
US-10-888-226-46

Query Match 58.0%; Score 11.6; DB 22; Length 19;  
Best Local Similarity 77.8%; Pred. No. 3.7e+04;  
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCA 18  
Db 18 GACCGCATAGACTTCTCA 1

RESULT 19  
US-10-888-226-460  
Sequence 460, Application US/10888226  
Publication No. US20050124568A1  
GENERAL INFORMATION:  
APPLICANT: Sirna Therapeutics, Inc.  
APPLICANT: McSwiggen, James  
APPLICANT: Usman, Nassim  
TITLE OF INVENTION: RNA Interference Mediated Inhibition of Acetyl-CoA-Carboxylase  
FILE REFERENCE: 400-199 (MHB03-710-A)  
CURRENT FILING DATE: 2004-07-09  
PRIOR APPLICATION NUMBER: US 10/788,226  
PRIOR FILING DATE: 2003-07-11  
PRIOR APPLICATION NUMBER: PCT/US04/16390  
PRIOR FILING DATE: 2004-05-24  
PRIOR APPLICATION NUMBER: US 10/826,966  
PRIOR FILING DATE: 2004-04-16  
PRIOR APPLICATION NUMBER: US 10/757,803  
PRIOR FILING DATE: 2004-01-14  
PRIOR APPLICATION NUMBER: US 10/720,448  
PRIOR FILING DATE: 2003-11-24  
PRIOR APPLICATION NUMBER: US 10/693,059  
PRIOR FILING DATE: 2003-10-23  
PRIOR APPLICATION NUMBER: US 10/444,853  
PRIOR FILING DATE: 2003-05-23  
PRIOR APPLICATION NUMBER: PCT/US03/05346  
PRIOR FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: PCT/US03/05028  
PRIOR FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: US 60/358580  
PRIOR FILING DATE: 2002-02-20  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 955  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 460  
LENGTH: 19  
TYPE: RNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region  
US-10-888-226-460

Query Match

58.0%; Score 11.6; DB 22; Length 19;

Best Local Similarity 61.1%; Pred. No. 3.7e+04;  
Matches 11; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCA 18  
Db 2 GACCGCATAGACTTCTCA 19

## RESULT 20

US-09-731-457B-14  
Sequence 14, Application US/09731457B  
Patent No. US20020103146A1  
GENERAL INFORMATION:  
APPLICANT: Ian Popoff  
APPLICANT: Jacqueline Wyatt  
TITLE OF INVENTION: ANTISENSE MODULATION OF DAMAGE-SPECIFIC DNA BINDING PROTEIN 1, P1;  
FILE REFERENCE: RTS-0182  
CURRENT APPLICATION NUMBER: US/09/731,457B  
CURRENT FILING DATE: 2000-12-06  
NUMBER OF SEQ ID NOS: 87  
SEQ ID NO 14  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Antisense Oligonucleotide  
US-09-731-457B-14

Query Match 58.0%; Score 11.6; DB 9; Length 20;  
Best Local Similarity 77.8%; Pred. No. 3.7e+04;  
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCA 18  
Db 2 GACCATAGACTTCTCA 19

## RESULT 21

US-10-345-092-51  
Sequence 51, Application US/10345092  
Publication No. US20030165506A1  
GENERAL INFORMATION:  
APPLICANT: Vlaams Interuniversitair Instituut voor Biotechnol  
TITLE OF INVENTION: No. US20030165506A1e1 alpha-catenin expressed in heart and testis  
FILE REFERENCE: FVR/atc/V067  
CURRENT APPLICATION NUMBER: US/10/345,092  
CURRENT FILING DATE: 2003-01-13  
PRIOR APPLICATION NUMBER: 00202472.7  
PRIOR FILING DATE: 2000-07-12  
PRIOR APPLICATION NUMBER: US 60/218,309  
PRIOR FILING DATE: 2000-07-14  
NUMBER OF SEQ ID NOS: 134  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 51  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: upper primer  
US-10-345-092-51

Query Match 58.0%; Score 11.6; DB 16; Length 20;  
Best Local Similarity 77.8%; Pred. No. 3.7e+04;  
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACCGCATAGACTTCTCA 18  
Db 2 GACTGACAGGCTTCTCA 19

## RESULT 22

US-10-056-414-289  
; Sequence 289, Application US/10056414  
; Publication No. US20030003489A1  
; GENERAL INFORMATION:  
; APPLICANT: Stinchcomb, Dan T.  
; Draper, Kenneth G.  
; McSwiggen, James  
; TITLE OF INVENTION: RIBOZYME TREATMENT OF  
; DISEASES OR CONDITIONS  
; RELATED TO LEVELS OF  
; NF-KB  
; NUMBER OF SEQUENCES: 830  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/056,414  
; FILING DATE: 23-Jan-2002  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/291,932A  
; FILING DATE: August 15, 1994  
; APPLICATION NUMBER: 08/245,466  
; FILING DATE: May 18, 1994  
; APPLICATION NUMBER: 07/987,132  
; FILING DATE: December 7, 1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 208/157  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 289:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 15 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; SEQUENCE DESCRIPTION: SEQ ID NO: 289:  
US-10-056-414-289  
Query Match 57.0%; Score 11.4; DB 14; Length 15;  
Best Local Similarity 61.5%; Pred. No. 4.7e+04;  
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;  
QY 7 ATAGACTTCTCAG 19  
|:|:|:|:|:  
Db 1 AUGGACUUCUAC 13  
RESULT 23  
US-09-864-785-2881  
; Sequence 2881, Application US/09864785  
; Patent No. US20020177568A1  
; GENERAL INFORMATION:  
; APPLICANT: Ribozyme Pharmaceuticals, Inc.  
; APPLICANT: Stinchcomb, Dan  
; APPLICANT: Draper, Ken  
; APPLICANT: McSwiggen, Jim  
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related

; TITLE OF INVENTION: Levels of NF-Kappa B  
; FILE REFERENCE: 400/022 (MBH00-812-D)  
; CURRENT APPLICATION NUMBER: US/09/864,785  
; CURRENT FILING DATE: 2001-05-23  
; NUMBER OF SEQ ID NOS: 3929  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 2881  
; LENGTH: 17  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid  
US-09-864-785-2881  
Query Match 57.0%; Score 11.4; DB 9; Length 17;  
Best Local Similarity 61.5%; Pred. No. 4.7e+04;  
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;  
QY 6 CATAGACTTCTCA 18  
|:|:|:|:|:  
Db 5 CAUGGACUUCUAC 17  
RESULT 24  
US-09-795-668-43  
; Sequence 43, Application US/09795668  
; Patent No. US20020045577A1  
; GENERAL INFORMATION:  
; APPLICANT: Stefansson, Hreinn  
; APPLICANT: Steinhorsdottir, Valgerdur  
; APPLICANT: Gulcher, Jeffrey R.  
; TITLE OF INVENTION: HUMAN SCHIZOPHRENIA GENE  
; FILE REFERENCE: 2345.2004-001  
; CURRENT APPLICATION NUMBER: US/09/795,668  
; CURRENT FILING DATE: 2001-02-28  
; PRIOR APPLICATION NUMBER: US 09/515,716  
; PRIOR FILING DATE: 2000-02-28  
; NUMBER OF SEQ ID NOS: 1531  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 43  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-795-668-43  
Query Match 57.0%; Score 11.4; DB 9; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.8e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 5 GCATAGACTTCTC 17  
|:|:|:|:|:  
Db 6 GCATAGAAATCTC 18  
RESULT 25  
US-09-795-686-43  
; Sequence 43, Application US/09795686  
; Patent No. US20020094954A1  
; GENERAL INFORMATION:  
; APPLICANT: Stefansson, Hreinn  
; APPLICANT: Steinhorsdottir, Valgerdur  
; APPLICANT: Gulcher, Jeffrey R.  
; TITLE OF INVENTION: HUMAN SCHIZOPHRENIA GENE  
; FILE REFERENCE: 2345.2005-001  
; CURRENT APPLICATION NUMBER: US/09/795,686  
; CURRENT FILING DATE: 2001-02-28  
; PRIOR APPLICATION NUMBER: US 09/515,715  
; PRIOR FILING DATE: 2000-02-28  
; NUMBER OF SEQ ID NOS: 1531  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 43  
; LENGTH: 20  
; TYPE: DNA

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; ORGANISM: Homo sapiens
US-09-795-686-43

Query Match          57.0%; Score 11.4; DB 9; Length 20;
Best Local Similarity 92.3%; Pred. No. 4.8e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      5 GCATAGACTTCTC 17
Db      6 GCATAGAATTCTC 18
|||||
|

RESULT 26
US-09-946-807-43
; Sequence 43, Application US/09946807
; Patent No. US20020165144A1
; GENERAL INFORMATION:
; APPLICANT: Stefansson, Hreinn
; APPLICANT: Steinthorsdottir, Valgerdur
; APPLICANT: Gulcher, Jeffrey R.
; TITLE OF INVENTION: HUMAN SCHIZOPHRENIA GENE
; FILE REFERENCE: 2345-2004-001
; CURRENT APPLICATION NUMBER: US/09/946,807
; PRIOR FILING DATE: 2001-09-05
; PRIOR APPLICATION NUMBER: US/09/795,668
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: US 09/515,716
; PRIOR FILING DATE: 2000-02-28
; NUMBER OF SEQ ID NOS: 1531
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-946-807-43

Query Match          57.0%; Score 11.4; DB 9; Length 20;
Best Local Similarity 92.3%; Pred. No. 4.8e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      5 GCATAGACTTCTC 17
Db      6 GCATAGAATTCTC 18
|||||
|

RESULT 27
US-10-148-806-20/c
; Sequence 20, Application US/10148806
; Publication No. US20030138933A1
; GENERAL INFORMATION:
; APPLICANT: Bai, Chang
; APPLICANT: Metzger, Michael
; APPLICANT: Liu, Xiaomei
; TITLE OF INVENTION: DNA MOLECULES ENCODING HUMAN NHL, A DNA
; TITLE OF INVENTION: HELICASE
; FILE REFERENCE: 20585P
; CURRENT APPLICATION NUMBER: US/10/148,806
; CURRENT FILING DATE: 2002-06-05
; PRIOR APPLICATION NUMBER: US00/33065
; PRIOR FILING DATE: 2000-12-09
; PRIOR APPLICATION NUMBER: 60/169,970
; PRIOR FILING DATE: 1999-12-09
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: oligonucleotide
US-10-148-806-20

Query Match          57.0%; Score 11.4; DB 15; Length 20;
Best Local Similarity 92.3%; Pred. No. 4.8e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      8 TAGACTTCTCAGA 20
Db      4 TGGACTTCTCAGA 16
|||||
|

RESULT 28
US-10-148-806-21
; Sequence 21, Application US/10148806
; Publication No. US20030138933A1
; GENERAL INFORMATION:
; APPLICANT: Bai, Chang
; APPLICANT: Metzger, Michael
; APPLICANT: Liu, Xiaomei
; TITLE OF INVENTION: DNA MOLECULES ENCODING HUMAN NHL, A DNA
; TITLE OF INVENTION: HELICASE
; FILE REFERENCE: 20585P
; CURRENT APPLICATION NUMBER: US/10/148,806
; CURRENT FILING DATE: 2002-06-05
; PRIOR APPLICATION NUMBER: US00/33065
; PRIOR FILING DATE: 2000-12-09
; PRIOR APPLICATION NUMBER: 60/169,970
; PRIOR FILING DATE: 1999-12-09
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: oligonucleotide
US-10-148-806-21

Query Match          57.0%; Score 11.4; DB 15; Length 20;
Best Local Similarity 92.3%; Pred. No. 4.8e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      8 TAGACTTCTCAGA 20
Db      4 TGGACTTCTCAGA 16
|||||
|

RESULT 29
US-10-174-319-35/c
; Sequence 35, Application US/10174319
; Publication No. US20030212771A1
; GENERAL INFORMATION:
; APPLICANT: Donna T. Ward
; APPLICANT: Susan M. Freier
; APPLICANT: Kenneth W. Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF MARK3 EXPRESSION
; FILE REFERENCE: PTS-0018
; CURRENT APPLICATION NUMBER: US/10/174,319
; CURRENT FILING DATE: 2002-06-17
; NUMBER OF SEQ ID NOS: 121
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-174-319-35

Query Match          57.0%; Score 11.4; DB 17; Length 20;
Best Local Similarity 92.3%; Pred. No. 4.8e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      8 TAGACTTCTCAGA 20
Db      19 TAGACATCTCAGA 7
|||||
|
```

```

, APPURCARI, C. FRANK
,
, TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe
,
, TITLE OF INVENTION: Acute Respiratory Syndrome (SARS)
,
, FILE REFERENCE: ISIS0083-100 (BIOLO0080US)
,
, CURRENT APPLICATION NUMBER: US/10/831,901A
,
, CURRENT FILING DATE: 2004-04-26
,
, PRIOR APPLICATION NUMBER: 60/466,426
,
, PRIOR FILING DATE: 2003-04-28
,
, PRIOR APPLICATION NUMBER: 60/468,562
,
, PRIOR FILING DATE: 2003-05-06
,
, PRIOR APPLICATION NUMBER: 60/467,770
,
, PRIOR FILING DATE: 2003-04-30
,
, PRIOR APPLICATION NUMBER: 60/468,627
,
, PRIOR FILING DATE: 2003-05-06
,
, PRIOR APPLICATION NUMBER: 60/477,637
,
, PRIOR FILING DATE: 2003-06-10
,
, PRIOR APPLICATION NUMBER: 60/483,579
,
, PRIOR FILING DATE: 2003-06-27
,
, NUMBER OF SEQ ID NOS: 30063
,
, SOFTWARE: FastSeq for Windows Version 4.0
,
, SEQ ID NO 2083

```

LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Antisense compound  
US-10-831-901A-2083

Query Match 57.0%; Score 11.4; DB 21; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.8e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19  
| | | | | | | | | |  
Db 14 ACAGACTTCTCAG 2

RESULT 34  
US-10-831-901A-2084/c  
Sequence 2084, Application US/10831901A  
Publication No. US20050100885A1  
GENERAL INFORMATION:  
APPLICANT: Crooke, Stanley T.  
APPLICANT: Ecker, David J.  
APPLICANT: Sampath, Rangarajan  
APPLICANT: Freier, Susan M.  
APPLICANT: Massire, Christian  
APPLICANT: Hofstadler, Steven A.  
APPLICANT: Lowery, Kristin Sannes  
APPLICANT: Swayze, Eric  
APPLICANT: Baker, Brenda F.  
APPLICANT: Bennett, C. Frank  
TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe  
TITLE OF INVENTION: Acute Respiratory Syndrome (SARS)  
FILE REFERENCE: ISIS0083-100 (BIOL00008US)  
CURRENT APPLICATION NUMBER: US/10/831,901A  
CURRENT FILING DATE: 2004-04-26  
PRIOR FILING DATE: 2003-04-28  
PRIOR APPLICATION NUMBER: 60/468,562  
PRIOR FILING DATE: 2003-05-06  
PRIOR APPLICATION NUMBER: 60/467,770  
PRIOR FILING DATE: 2003-04-30  
PRIOR APPLICATION NUMBER: 60/468,627  
PRIOR FILING DATE: 2003-05-06  
PRIOR APPLICATION NUMBER: 60/477,637  
PRIOR FILING DATE: 2003-06-10  
PRIOR APPLICATION NUMBER: 60/483,579  
PRIOR FILING DATE: 2003-06-27  
NUMBER OF SEQ ID NOS: 30063  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 2084  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Antisense compound  
US-10-831-901A-2084

Query Match 57.0%; Score 11.4; DB 21; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.8e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19  
| | | | | | | | | |  
Db 15 ACAGACTTCTCAG 3

RESULT 35  
US-10-831-901A-2085/c  
Sequence 2085, Application US/10831901A  
Publication No. US20050100885A1  
GENERAL INFORMATION:  
APPLICANT: Crooke, Stanley T.

APPLICANT: Ecker, David J.  
APPLICANT: Sampath, Rangarajan  
APPLICANT: Freier, Susan M.  
APPLICANT: Massire, Christian  
APPLICANT: Hofstadler, Steven A.  
APPLICANT: Lowery, Kristin Sannes  
APPLICANT: Swayze, Eric  
APPLICANT: Baker, Brenda F.  
APPLICANT: Bennett, C. Frank  
TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe  
TITLE OF INVENTION: Acute Respiratory Syndrome (SARS)  
FILE REFERENCE: ISIS0083-100 (BIOL00008US)  
CURRENT APPLICATION NUMBER: US/10/831,901A  
CURRENT FILING DATE: 2004-04-26  
PRIOR FILING DATE: 2003-04-28  
PRIOR APPLICATION NUMBER: 60/468,562  
PRIOR FILING DATE: 2003-05-06  
PRIOR APPLICATION NUMBER: 60/467,770  
PRIOR FILING DATE: 2003-04-30  
PRIOR APPLICATION NUMBER: 60/468,627  
PRIOR FILING DATE: 2003-05-06  
PRIOR APPLICATION NUMBER: 60/477,637  
PRIOR FILING DATE: 2003-06-10  
PRIOR APPLICATION NUMBER: 60/483,579  
PRIOR FILING DATE: 2003-06-27  
NUMBER OF SEQ ID NOS: 30063  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 2085  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Antisense compound  
US-10-831-901A-2085

Query Match 57.0%; Score 11.4; DB 21; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.8e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19  
| | | | | | | | | |  
Db 16 ACAGACTTCTCAG 4

RESULT 36  
US-10-831-901A-2086/c  
Sequence 2086, Application US/10831901A  
Publication No. US20050100885A1  
GENERAL INFORMATION:

APPLICANT: Crooke, Stanley T.  
APPLICANT: Ecker, David J.  
APPLICANT: Sampath, Rangarajan  
APPLICANT: Freier, Susan M.  
APPLICANT: Massire, Christian  
APPLICANT: Hofstadler, Steven A.  
APPLICANT: Lowery, Kristin Sannes  
APPLICANT: Swayze, Eric  
APPLICANT: Baker, Brenda F.  
APPLICANT: Bennett, C. Frank  
TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe  
TITLE OF INVENTION: Acute Respiratory Syndrome (SARS)  
FILE REFERENCE: ISIS0083-100 (BIOL00008US)  
CURRENT APPLICATION NUMBER: US/10/831,901A  
CURRENT FILING DATE: 2004-04-26  
PRIOR FILING DATE: 2003-04-28  
PRIOR APPLICATION NUMBER: 60/468,562  
PRIOR FILING DATE: 2003-05-06  
PRIOR APPLICATION NUMBER: 60/467,770  
PRIOR FILING DATE: 2003-04-30  
PRIOR APPLICATION NUMBER: 60/468,627  
PRIOR FILING DATE: 2003-05-06

; PRIOR APPLICATION NUMBER: 60/477,637  
; PRIOR FILING DATE: 2003-06-10  
; PRIOR APPLICATION NUMBER: 60/483,579  
; PRIOR FILING DATE: 2003-06-27  
; NUMBER OF SEQ ID NOS: 30063  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2086  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense compound  
US-10-831-901A-2086

Query Match 57.0%; Score 11.4; DB 21; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.8e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19  
| | | | | | | | | |  
Db 17 ACAGACTTCTCAG 5

RESULT 37  
US-10-831-901A-2087/c  
; Sequence 2087, Application US/10831901A  
; Publication No. US20050100885A1  
; GENERAL INFORMATION:  
; APPLICANT: Crooke, Stanley T.  
; APPLICANT: Ecker, David J.  
; APPLICANT: Sampath, Rangarajan  
; APPLICANT: Freier, Susan M.  
; APPLICANT: Massire, Christian  
; APPLICANT: Hofstadler, Steven A.  
; APPLICANT: Lowery, Kristin Sannes  
; APPLICANT: Swayze, Eric  
; APPLICANT: Baker, Brenda F.  
; APPLICANT: Bennett, C. Frank  
; TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe  
; FILE REFERENCE: ISIS0083-100 (BIOL0008US)  
; CURRENT APPLICATION NUMBER: US/10/831,901A  
; CURRENT FILING DATE: 2004-04-26  
; PRIOR APPLICATION NUMBER: 60/466,426  
; PRIOR FILING DATE: 2003-04-28  
; PRIOR APPLICATION NUMBER: 60/468,562  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/467,770  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: 60/468,627  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/477,637  
; PRIOR FILING DATE: 2003-06-10  
; PRIOR APPLICATION NUMBER: 60/483,579  
; PRIOR FILING DATE: 2003-06-27  
; NUMBER OF SEQ ID NOS: 30063  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2087  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense compound  
US-10-831-901A-2087

Query Match 57.0%; Score 11.4; DB 21; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.8e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19  
| | | | | | | | | |  
Db 18 ACAGACTTCTCAG 6

RESULT 38  
US-10-831-901A-2088/c  
; Sequence 2088, Application US/10831901A  
; Publication No. US20050100885A1  
; GENERAL INFORMATION:  
; APPLICANT: Crooke, Stanley T.  
; APPLICANT: Ecker, David J.  
; APPLICANT: Sampath, Rangarajan  
; APPLICANT: Freier, Susan M.  
; APPLICANT: Massire, Christian  
; APPLICANT: Hofstadler, Steven A.  
; APPLICANT: Lowery, Kristin Sannes  
; APPLICANT: Swayze, Eric  
; APPLICANT: Baker, Brenda F.  
; APPLICANT: Bennett, C. Frank  
; TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe  
; FILE REFERENCE: ISIS0083-100 (BIOL0008US)  
; CURRENT APPLICATION NUMBER: US/10/831,901A  
; CURRENT FILING DATE: 2004-04-26  
; PRIOR APPLICATION NUMBER: 60/466,426  
; PRIOR FILING DATE: 2003-04-28  
; PRIOR APPLICATION NUMBER: 60/468,562  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/467,770  
; PRIOR FILING DATE: 2003-04-30  
; PRIOR APPLICATION NUMBER: 60/468,627  
; PRIOR FILING DATE: 2003-05-06  
; PRIOR APPLICATION NUMBER: 60/477,637  
; PRIOR FILING DATE: 2003-06-10  
; PRIOR APPLICATION NUMBER: 60/483,579  
; PRIOR FILING DATE: 2003-06-27  
; NUMBER OF SEQ ID NOS: 30063  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2088  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense compound  
US-10-831-901A-2088

Query Match 57.0%; Score 11.4; DB 21; Length 20;  
Best Local Similarity 92.3%; Pred. No. 4.8e+04;  
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19  
| | | | | | | | | |  
Db 19 ACAGACTTCTCAG 7

RESULT 39  
US-10-831-901A-2089/c  
; Sequence 2089, Application US/10831901A  
; Publication No. US20050100885A1  
; GENERAL INFORMATION:  
; APPLICANT: Crooke, Stanley T.  
; APPLICANT: Ecker, David J.  
; APPLICANT: Sampath, Rangarajan  
; APPLICANT: Freier, Susan M.  
; APPLICANT: Massire, Christian  
; APPLICANT: Hofstadler, Steven A.  
; APPLICANT: Lowery, Kristin Sannes  
; APPLICANT: Swayze, Eric  
; APPLICANT: Baker, Brenda F.  
; APPLICANT: Bennett, C. Frank  
; TITLE OF INVENTION: Compositions And Methods For The Treatment Of Severe  
; FILE REFERENCE: ISIS0083-100 (BIOL0008US)  
; CURRENT APPLICATION NUMBER: US/10/831,901A  
; CURRENT FILING DATE: 2004-04-26  
; PRIOR APPLICATION NUMBER: 60/466,426



Fri Aug 12 15:50:25 2005

; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 60/468,562
; PRIOR FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: 60/467,770
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: 60/468,627
; PRIOR FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: 60/477,637
; PRIOR FILING DATE: 2003-06-10
; PRIOR APPLICATION NUMBER: 60/483,579
; PRIOR FILING DATE: 2003-06-27
; NUMBER OF SEQ ID NOS: 30063
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2089
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense compound
US-10-831-901A-2089

Query Match 57.0%; Score 11.4; DB 21; Length 20;
Best Local Similarity 92.3%; Pred. No. 4.8e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 ATAGACTTCTCAG 19
Db 20 ACAGACTTCTCAG 8

RESULT 40
US-10-859-792-20/c
; Sequence 20, Application US/10859792
; Publication No. US20050136425A1
; GENERAL INFORMATION:
; APPLICANT: Bai, Chang
; APPLICANT: Metzger, Michael
; APPLICANT: Liu, Xiaomei
; TITLE OF INVENTION: DNA MOLECULES ENCODING HUMAN NHL, A DNA
; FILE REFERENCE: 20585P
; CURRENT APPLICATION NUMBER: US/10/859,792
; CURRENT FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: US/10/148,806
; PRIOR FILING DATE: 2002-06-05
; PRIOR APPLICATION NUMBER: US00/33065
; PRIOR FILING DATE: 2000-12-09
; PRIOR APPLICATION NUMBER: 60/169,970
; PRIOR FILING DATE: 1999-12-09
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: oligonucleotide
US-10-859-792-20

Query Match 57.0%; Score 11.4; DB 22; Length 20;
Best Local Similarity 92.3%; Pred. No. 4.8e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 8 TAGACTTCTCAGA 20
Db 17 TGGACTTCTCAGA 5

Search completed: August 12, 2005, 12:19:44
Job time : 376 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 12, 2005, 11:03:34 ; Search time 1779 Seconds

(without alignments)  
427.929 Million cell updates/sec

Title: US-09-743-825-10

Perfect score: 20

Sequence: 1 gacgcagatagcttcacga 20

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 34239544 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters: 12452

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

EST:\*

1: gb\_est1:\*

2: gb\_est2:\*

3: gb\_hic:\*

4: gb\_est3:\*

5: gb\_est4:\*

6: gb\_est5:\*

7: gb\_est6:\*

8: gb\_gsa1:\*

9: gb\_gsa2:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	10.2	51.0	19	7	CO792214 NT014C A1
2	9.8	49.0	19	8	AZ309643 IM0016E23
3	9.6	48.0	20	8	AZ660128 IM0538G04
4	9.2	46.0	17	9	CL681189 PRI0130b
5	9	45.0	18	5	BQ593906 S015504-0
6	9	45.0	19	1	AJ671616 AJ671616
7	9	45.0	19	9	CL671780 PRI0165c
8	9	45.0	20	9	AG188131 Pan trogl
9	8.8	44.0	16	5	BQ585512 E012305-0
10	8.8	44.0	19	8	AZ585898 IM0391L22
11	8.8	44.0	20	9	AG187931 Pan trogl
12	8.8	44.0	20	9	AG200702 Pan trogl
13	8.6	43.0	16	1	AJ684587 AJ684587
14	8.6	43.0	19	8	AZ309116 IM0012E23
15	8.6	43.0	20	7	CO783852 BL279A_E0
16	8.6	43.0	20	8	AZ440002 IM0230E19
17	8.4	42.0	17	1	AJ648088 AJ648088
18	8.4	42.0	19	8	AZ313531 IM0029N07
19	8.4	42.0	19	8	AZ663240 IM0542H18
20	8.4	42.0	20	8	AZ303578 IM0003H07
21	8.4	42.0	20	8	AZ771437 IM0573P03
22	8.2	41.0	16	9	CL423466 O1S0557-0
23	8.2	41.0	19	1	AA916934 on14a09.8
24	8.2	41.0	19	8	AZ414372 IM0198G18

C 25	8.2	41.0	19	8	AZ436629
C 26	8.2	41.0	19	8	AZ454430
C 27	8.2	41.0	19	8	AZ647364
C 28	8.2	41.0	19	8	AZ655870
C 29	8.2	41.0	19	8	AZ783477
C 30	8	40.0	12	9	AJ594088
C 31	8	40.0	20	8	AZ345710
C 32	7.8	39.0	14	9	CL423876
C 33	7.8	39.0	14	9	CL438505
C 34	7.8	39.0	18	9	AJ587709
C 35	7.8	39.0	19	8	AZ355195
C 36	7.8	39.0	19	8	AZ422531
C 37	7.8	39.0	19	8	AZ875430
C 38	7.8	39.0	19	9	AJ595189
C 39	7.8	39.0	19	9	AJ599121
C 40	7.8	39.0	19	9	CL683526
C 41	7.8	39.0	20	1	AJ808310
C 42	7.8	39.0	20	8	AZ480596
C 43	7.8	39.0	20	9	AJ597717
C 44	7.8	39.0	20	9	CL423931
C 45	7.6	38.0	17	9	AJ587423
C 46	7.6	38.0	19	1	AA915433
C 47	7.6	38.0	19	7	CF328201
C 48	7.6	38.0	19	8	AZ442391
C 49	7.6	38.0	19	8	AZ588035
C 50	7.6	38.0	19	8	AZ613058
C 51	7.6	38.0	19	8	AZ617087
C 52	7.6	38.0	19	8	AZ623412
C 53	7.6	38.0	20	1	AJ258388
C 54	7.6	38.0	20	4	BF966452
C 55	7.6	38.0	20	8	BM398906
C 56	7.6	38.0	20	8	AZ475341
C 57	7.6	38.0	20	8	AZ480598
C 58	7.6	38.0	20	8	AZ590476
C 59	7.6	38.0	20	8	AZ786334
C 60	7.6	38.0	20	8	AZ792286
C 61	7.6	38.0	20	9	AG193233
C 62	7.6	38.0	20	9	AG200990
C 63	7.4	37.0	10	9	CL439564
C 64	7.4	37.0	17	9	AJ600606
C 65	7.4	37.0	17	9	CL883716
C 66	7.4	37.0	18	4	BM393920
C 67	7.4	37.0	18	9	AJ588001
C 68	7.4	37.0	18	9	AJ592301
C 69	7.4	37.0	18	9	CL695736
C 70	7.4	37.0	19	1	AI017940
C 71	7.4	37.0	19	1	AJ597783
C 72	7.4	37.0	19	1	AJ647608
C 73	7.4	37.0	19	8	AZ384797
C 74	7.4	37.0	19	8	AZ636812
C 75	7.4	37.0	19	8	AZ785518
C 76	7.4	37.0	19	9	CL671134
C 77	7.4	37.0	20	1	AJ683142
C 78	7.4	37.0	20	1	AJ013891
C 79	7.4	37.0	20	5	BQ593049
C 80	7.4	37.0	20	8	AZ313204
C 81	7.4	37.0	20	8	AZ366451
C 82	7.4	37.0	20	8	AZ514604
C 83	7.4	37.0	20	8	AZ581459
C 84	7.4	37.0	20	8	AZ637439
C 85	7.4	37.0	20	8	AZ656648
C 86	7.4	37.0	20	8	AZ816586
C 87	7.4	37.0	20	8	AZ838929
C 88	7.2	36.0	13	7	CO778077
C 89	7.2	36.0	13	9	AJ588190
C 90	7.2	36.0	14	2	BE516032
C 91	7.2	36.0	14	4	BM398820
C 92	7.2	36.0	14	6	CA798290
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C 94	7.2	36.0	16	9	AJ596507
C 95	7.2	36.0	17	4	BM397301
C 96	7.2	36.0	19	1	AI688430
C 97	7.2	36.0	19	1	AJ672970

AZ436629	IM0224O19
AZ454430	IM0256F21
AZ647364	IM0513O16
AZ655870	IM0531N06
AZ783477	2M0025D18
AJ594088	Arabidops
AZ345710	IM0080H05
CL423876	O1S0750-0
CL438505	PST7640-N
AJ587709	Arabidops
AZ355195	IM0094G22
AZ422531	IM0201E16
AZ875430	2M0198K09
AJ595189	Arabidops
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CL683526	PRI0137a
AJ808310	AJ808310
AZ480596	IM0302D18
AJ597717	Arabidops
CL423931	O2S0166-0
AJ587423	Arabidops
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AZ613058	IM0441C18
AZ617087	IM0448M12
AZ623412	IM0461A08
AU258388	AU258388
BF966452	602287066
BM398906	5009-0-50
AZ475341	IM0293H11
AZ480598	IM0302E17
AZ590476	IM0400P06
AZ786334	2M0031H15
AZ792286	2M0043G08
AG193233	Pan trogl
AG200990	Pan trogl
CL439564	PST951-1
AJ600606	Arabidops
CL883716	abf63c08
BM393920	50072-2-1
AJ588001	Arabidops
AJ592301	Arabidops
CL695736	PRI017a.G
AI017940	ou24b04.x
AJ597783	t-r2g04.x
AJ647608	AJ647608
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AZ785518	2M0029M23
CL671134	PRI0163d
AJ683142	AJ683142
AJ013891	AU013891
BQ593049	E012375-0
AZ313204	IM0029P19
AZ366451	IM0115N07
AZ514604	IM0361K19
AZ581459	IM0370D14
AZ637439	IM0496N13
AZ656648	IM0532P16
AZ816586	2M0085H22
AZ838929	2M0134O14
CO778077	BL002D.E0
AJ588190	Arabidops
BE516032	WHE0629.B
BM398820	5009-0-42
CA798290	Cac BL 61
AJ649083	AJ649083
AJ596507	Arabidops
BM397301	5009-0-30
AI688430	wc89e09.x
AJ672970	AJ672970

C 98 7.2 36.0 19 4 BM397569 BM397569 5009-0-34  
C 99 7.2 36.0 19 4 BM399684 BM399684 5009-0-60  
C 100 7.2 36.0 19 6 C01992 C01992 HUMGS000401

## ALIGNMENTS

RESULT 1  
C0792214 19 bp mRNA linear EST 05-AUG-2004  
LOCUS NT014C A10 St18-22 Neural tube (NT) Ambystoma mexicanum cDNA 5'  
DEFINITION similar to hypothetical protein, mRNA sequence.

ACCESSION C0792214  
VERSION C0792214.1 GI:51008185  
KEYWORDS EST.

SOURCE Ambystoma mexicanum (axolotl)  
ORGANISM Ambystoma mexicanum

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Amphibia; Batrachia; Caudata; Salamandroidea; Ambystomatidae;  
Ambystoma.

1 (bases 1 to 19)

REFERENCE Habermann, B., Bebin, A.G., Herklitz, S., Volkmer, M., Eckelt, K.,  
AUTHORS Pehlike, K., Epperlein, H.H., Schackert, H.K., Wiebe, G. and Tanaka, E.M.  
TITLE An Ambystoma mexicanum EST sequencing project: Analysis of 17,352  
expressed sequence tags from embryonic and regenerating blastema  
cDNA libraries

JOURNAL Genome Biol. (2004) In press

COMMENT Contact: Elly M. Tanaka

Tanaka Lab  
Max Planck Institute of Molecular Cell Biology and Genetics,  
Dresden

Frothenauerstrasse 108, 01307 Dresden, Germany

Tel: 0049 351 210 2620

Fax: 0049 351 210 1489

Email: tanaka@mpi-cbg.de

Plate: NT014C row: 10 column: A

Seq primer: GCA CAT TAG GCC TAT TTA GGT GAC A.

FEATURES  
source

1..19  
Location/Qualifiers

/organism="Ambystoma mexicanum"

/mol\_type="mRNA"

/db\_xref="taxon:8296"

/tissue\_type="Neural Tube, Notochord, Somites"

/cell\_type="Includes Neural tube, notochord, somites"

/dev\_stage="Stage 18-22"

/clone\_lib="St18-22 Neural tube (NT)"

/note="Vector: pCMVSPORT6; Site 1: NotI; Site 2: SalI;

Unnormalized cDNA plasmid library prepared by Invitrogen.

Size fractionated mRNA was polyA primed and cloned into

NotI-SalI site of pCMVSPORT6. Bacterial host is

EMDH10B-TOHA. Average insert size is 1.5 kb.

TAG\_LIB=NT"

ORIGIN

Query Match 51.0%; Score 10.2; DB 7; Length 19;  
Best Local Similarity 80.0%; Pred. No. 1.4e+06;  
Matches 12; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 CCGCATAGACTTCTC 17

|||||

Db 1 CCGCAGAGGCTTAC 15

RESULT 2

AZ309643

LOCUS

DEFINITION 19 bp DNA linear GSS 29-SEP-2000

1M0016E23F Mouse 10kb plasmid UUGC1M library Mus musculus genomic

clone UUGC1M0016E23 F, genomic survey sequence.

ACCESSION AZ309643

VERSION AZ309643.1 GI:10350661

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

ORGANISM

Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 19)

REFERENCE

AUTHORS

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,

Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,

Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von

Niederhausern, A. and Wright, D., Weiss, R.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0016 row: E column: 23

Seq primer: CGTTGTAAACGACGCCAGT

Class: plasmid ends

High quality sequence stop: 19.

FEATURES

source

1..19  
Location/Qualifiers

/organism="Mus musculus"

/mol\_type="genomic DNA"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="UUGC1M0016E23"

/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, Tl-resistant, F-"

/clone\_lib="Mouse 10kb plasmid UUGC1M library"

/note="Vector: PWD42nv; Purified genomic DNA from M.

musculus C57BL/6J (male) was obtained from the Jackson

Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA

was hydrodynamically sheared by repeated passage through a

0.005 inch orifice at constant velocity. The sheared DNA

was blunt end-repaired with T4 DNA polymerase and T4

polynucleotide kinase. Adaptor oligonucleotides were

ligated to the blunt ends in high molar excess. The

adaptored DNA was purified and size-selected for a 9.5 to

10.5 kb range using preparative agarose gel

electrophoresis. Vector DNA was prepared from a derivative

of PWD42 (gi|4732114|gb|AF129072.1), a copy-number

inducible derivative of plasmid R1. The vector was ligated

with adaptors complementary to the insert adaptors and

purified. The sheared, adaptored mouse DNA was annealed to

adaptored vector DNA, and transformed into

chemically-competent E. coli XL10-Gold (Stratagene) cells

and selected for ampicillin resistance."

ORIGIN

Query Match 49.0%; Score 9.8; DB 8; Length 19;  
Best Local Similarity 84.6%; Pred. No. 2.3e+06;  
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 GCATAGACTTCTC 17

|||||

Db 3 GCACAGAGTTCTC 15

RESULT 3

AZ660128/c

LOCUS

DEFINITION 20 bp DNA linear GSS 14-DEC-2000

1M0538G04F Mouse 10kb plasmid UUGC1M library Mus musculus genomic

clone UUGC1M0538G04 F, genomic survey sequence.

ACCESSION AZ660128

VERSION AZ660128.1 GI:11797274

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

**ORGANISM** Mus musculus  
**REFERENCE** Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
**AUTHORS** 1 (bases 1 to 20)  
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,  
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von  
Niederhausern,A. and Wright,D.,Weiss,R.  
**TITLE** Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
**JOURNAL** Unpublished (2000)  
**COMMENT** Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT,  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0538 row: G column: 04  
Seq primer: CGTTGTAAACGACGCGCAGT  
Class: plasmid ends  
High quality sequence stop: 20.  
**FEATURES**  
**Source**  
1..20  
Location/Qualifiers  
/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC1M0538G04"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/note="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adapted DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of pWD42 (gi|4732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adapted mouse DNA was annealed to  
adapted vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

**ORIGIN**  
Query Match 48.0%; Score 9.6; DB 8; Length 20;  
Best Local Similarity 75.0%; Pred. No. 3e+06;  
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
**QY** 5 GCATAGACTTCTCAGA 20  
|||||  
**Db** 20 GCATAGATATATCATCA 5  
  
**RESULT 4**  
CL681189/c  
**LOCUS** CL681189  
**DEFINITION** PR10130b.G06.2 - PR10130b.BR (17) Mixed stage fosmid library of P.  
pacificus var. California Pristionchus pacificus genomic, genomic  
survey sequence.  
**ACCESSION** CL681189  
**VERSION** CL681189.1 GI:50198197  
**KEYWORDS** GSS.

		/organism="Beta vulgaris" /mol_type="mRNA" /cultivar="KWS2320 (double haploid, monogerm breeding line)" /db_xref="GABI:192944" /db_xref="taxon:161934" /clone="024-025-M13" /tissue_type="developing root" /lab_host="EMDH108" /clone_lib="MP12-ADIS-024-developing root" /note="Vector: pCMVSPORT6; Site 1: Sali; Site 2: NotI; cDNA library from sugar beet, library provided by KWS Kleinzellbener Saatgut AG Einbeck, Germany, contact: b.schulz@kws.de; cloning sites Sali-NotI, primer sites and orientation: SP6-Sali-CCACGGCTCG-5prime-cDNA-polyA-CC-NotI-T7; Note: Sequencing granted in the context of the GABI-Beet project, local PI: Dr. Katharina Schneider, coordinator: Prof. Christian Jung; Sequence submission managed by RZPD/GABI-Primary database: http://gabi.rzpd.de"		Best Local Similarity 100.0%; Pred. No. 6.3e+06; Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY		12 CTTCTCAGA 20 			
Db		5 CTTCTCAGA 13 			
RESULT 7		CL671780 19 bp DNA linear GSS 09-JUL-2004			
LOCUS		PR10165c.F12 - PR10165c.B21 (19) Mixed stage fosmid library of P. pacificus var. California Pristionchus pacificus genomic, genomic survey sequence.			
DEFINITION					
ACCESSION		CL671780			
VERSION		CL671780.1 GI:50171182			
KEYWORDS		GSS.			
SOURCE		Pristionchus pacificus			
ORGANISM		Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida; Neodiplogasteridae; Pristionchus.			
REFERENCE		1 (bases 1 to 19) Srinivasan,J., Otto,G.W., Kahlow,U., Geisler,R. and Sommer,R.J. AppADB: an AcedB database for the nematode satellite organism Pristionchus pacificus			
AUTHORS		Nucleic Acids Res. 32 (1), D421-D422 (2004)			
TITLE		Contact: Sommer RJ			
JOURNAL		Evolutionary Biology			
COMMENT		Max-Planck-Institute for Developmental Biology Spemannstr. 37-39, Tuebingen D-72076, Germany Tel: 00497071601371 Fax: 00497071601498 Email: ralf.sommer@uebingen.mpg.de This library was generated at Caltech, Pasadena, USA and end sequenced at Vancouver, Canada. Seq primer: T7 Class: fosmid ends.			
FEATURES		Location/Qualifiers 1..19 /organism="Pristionchus pacificus" /mol_type="genomic DNA" /strains="California" /db_xref="taxon:54126" /clone_lib="Mixed stage fosmid library of P. pacificus var. California" /note="Vector: pEpifos-5 Fosmid vector"			
ORIGIN		Query Match 45.0%; Score 9; DB 9; Length 19; Best Local Similarity 70.6%; Pred. No. 6.3e+06; Matches 12; Conservative 0; Mismatches 5; Indels 0; Gaps 0;			
QY		4 CGCATAGACTTCTCAGA 20 			
Db		2 CGCTGCAACTTCTCGGA 18 			
RESULT 8		AG188131 20 bp DNA linear GSS 06-MAR-2004			
AG188131		Pan troglodytes DNA, clone: RP43-061K12.T7, genomic survey sequence.			
LOCUS		AG188131			
DEFINITION		AG188131.1 GI:45220300			
ACCESSION		GSS.			
KEYWORDS		Pan troglodytes (chimpanzee)			
SOURCE		Pan troglodytes			
ORGANISM		Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.			
REFERENCE		1 Park,H., Kim,Y., Kim,S., Han,Y., Woo,T., Park,K., Eun,C.J., Hoon,S.T., Chu,M., Kim,H., Joo,S., Kim,C., Song,W. and Yoo,H. BAC end sequences of Library RP-43			
AUTHORS					
TITLE					

		/organism="Beta vulgaris" /mol_type="mRNA" /cultivar="KWS2320 (double haploid, monogerm breeding line)" /db_xref="GABI:192944" /db_xref="taxon:161934" /clone="024-025-M13" /tissue_type="developing root" /lab_host="EMDH108" /clone_lib="MP12-ADIS-024-developing root" /note="Vector: pCMVSPORT6; Site 1: Sali; Site 2: NotI; cDNA library from sugar beet, library provided by KWS Kleinzellbener Saatgut AG Einbeck, Germany, contact: b.schulz@kws.de; cloning sites Sali-NotI, primer sites and orientation: SP6-Sali-CCACGGCTCG-5prime-cDNA-polyA-CC-NotI-T7; Note: Sequencing granted in the context of the GABI-Beet project, local PI: Dr. Katharina Schneider, coordinator: Prof. Christian Jung; Sequence submission managed by RZPD/GABI-Primary database: http://gabi.rzpd.de"		Best Local Similarity 100.0%; Pred. No. 6.3e+06; Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY		1 GACCGCATAGACTTCTC 17 			
Db		18 GACCATCACTCTTC 2 			
RESULT 6		AJ671616 19 bp mRNA linear EST 28-JUN-2004			
AJ671616		Bos taurus cDNA clone KN224-006_N20, mRNA sequence.			
LOCUS					
DEFINITION					
ACCESSION		AJ671616			
VERSION		AJ671616.1 GI:49356473			
KEYWORDS		EST.			
SOURCE		Bos taurus (cow)			
ORGANISM		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovinae; Bos.			
REFERENCE		1 (bases 1 to 19) Anderson,S.I., Finlayson,H.A. and Archibald,A.L. Development of cDNA and EST resources for studying reproduction and embryo development in pigs and cattle Unpublished (2004)			
AUTHORS		Contact: Anderson SI			
TITLE		Genomics and Bioinformatics			
JOURNAL		Roslin Institute			
COMMENT		Roslin, Midlothian, EH25 9PS, UNITED KINGDOM Single pass sequencing. Bases called and trimmed with phred v0.020425.c. Vector identified by cross match with the -minscore 20 and -minmatch 12 options. Vector: pBluescriptII(SK+) R. Site 1: EcoRI R. Site 2: NotI 5' Seq primer M13P Description: Normalised library constructed from Bovine Uterus tissue. Clones available from UK Centre for Functional Genomics in Farm Animals, Roslin Institute, Roslin, Midlothian, UK, EH25 9PS, www.arkgenomics.org.			
FEATURES		Location/Qualifiers 1..19 /organism="Bos taurus" /mol_type="mRNA" /db_xref="taxon:9913" /clone="KN224-006_N20" /tissue_type="uterus" /clone_lib="KN224" /note="Vector: pBluescriptII(SK+); Site 1: EcoRI; Site 2: NotI; Single pass sequencing. Normalised library constructed from Bovine Uterus tissue."			
ORIGIN		Query Match 45.0%; Score 9; DB 1; Length 19;			

Fri Aug 12 15:50:25 2005

JOURNAL Unpublished  
REFERENCE 2 (bases 1 to 20)  
AUTHORS Park, H., Kim, Y., Kim, S., Han, Y., Woo, T., Park, K., Eun, C.J., Hoon, S.T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H.  
TITLE Direct Submission  
JOURNAL Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of Bioscience and Biotechnology (KRIIB), Genome Research Center (GRC) 52, Oun-dong, Yuseong-gu, Daejeon 305-333, Korea  
(E-mail: redstone@mail.kribb.re.kr, URL: http://phs.grc.kribb.re.kr/, Tel: 82-42-866-7191, Fax: 82-42-860-4409)  
COMMENT Clones are derived from the chimpanzee BAC library RP-43. This BAC end was generated during the R&D process and may have higher chance of clone tracking errors.

## PRIMERS

Sequencing: T7

## LIBRARY

Vector : pBACe3.6  
R.Site 1 : EcoRI  
R.Site 2 : EcoRI.

## FEATURES

source

Location/Qualifiers

1..20  
/organism="Pan troglodytes"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:9598"  
/clone="RP43-061K12.T7"  
/sex="male"  
/cell\_type="lymphocytes"  
/clone\_lib="RP-43 Chimpanzee Male BAC Library"

## ORIGIN

Query Match 45.0%; Score 9; DB 9; Length 20;  
Best Local Similarity 70.6%; Pred. No. 6.3e+06;  
Matches 12; Conservative 0; Mismatches 5; Indels 0; Gaps 0;  
QY 1 GACCGCATAGACTTCTC 17  
|||||  
DB 3 GACCCAATCGATTACTC 19  
|||||

RESULT 9  
BQ585512/c  
LOCUS BQ585512 16 bp mRNA linear EST 06-DEC-2002  
DEFINITION E012305-024-008-E21-SP6 MP12-ADIS-024-inflorescence Beta vulgaris  
CDNA clone 024-008-E21 5-PRIME, mRNA sequence.  
ACCESSION BQ585512  
VERSION BQ585512.1 GI:26115094  
KEYWORDS EST.  
SOURCE Beta vulgaris  
ORGANISM Beta vulgaris

REFERENCE 1 (bases 1 to 16)  
AUTHORS Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Caryophyllales; Amaranthaceae; Beta.  
Hervig, R., Schulz, B., Weisshaar, B., Hennig, S., Steinfath, M., Drungowski, M., Stahl, D., Wuck, W., Menze, A., O'Brien, J., Lehrach, H. and Radelof, U.

TITLE Construction of a 'unigene' cDNA clone set by oligonucleotide fingerprinting allows access to 25 000 potential sugar beet genes  
JOURNAL Plant J. 32 (5), 845-857 (2002)  
MEDLINE 22362189  
PUBMED 12472698

COMMENT Contact: Weisshaar B  
ADIS DNA core facility at MP12  
Max-Planck-Institute for Plant Breeding Research  
Carl-von-Linne Weg 10, 50829 Koeln, Germany  
Fax: 00492215062851  
Email: weisshaar@mpiz-koeln.mpg.de  
Insert Length: 16 Std Error: 0.00  
Plate: 8 row: E column: 21  
Seq primer: SP6; CATACGATTAGTGACACTATAG.

FEATURES  
source Location/Qualifiers

1..16  
/organism="Beta vulgaris"

/mol\_type="mRNA"  
/cultivar="KWS2320 (double haploid, monogerm breeding line)"  
/db\_xref="GABI:184446"  
/db\_xref="taxon:161934"  
/clones="024-008-E21"  
/tissue\_type="inflorescence"  
/lab\_host="EMPH10B"  
/clone\_lib="MP12-ADIS-024-inflorescence"  
/note="Vector: pCMVSPORT6; Site 1: SalI; Site 2: NotI; cDNA library from sugar beet, library provided by KWS Kleinwanzlebener Saatgut AG Binbeck, Germany, contact: b.schulz@kws.de; cloning sites SalI-NotI, primer sites and orientation:  
SP6-SalI-CCACGCGTCCG-5prime-cDNA-polyA-CC-NotI-T7; Note: Sequencing granted in the context of the GABI-Beet project, local PI: Dr. Katharina Schneider, coordinator: Prof. Christian Jung; Sequence submission managed by RZPD/GABI-Primary database: http://gabi.rzpd.de"

## ORIGIN

Query Match 44.0%; Score 8.8; DB 5; Length 16;  
Best Local Similarity 83.3%; Pred. No. 7.8e+06;  
Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 7 ATAGACTTCTCA 18  
|||||  
DB 16 ATAGGCTTGTC A 5  
|||||

## RESULT 10

AZ585898

LOCUS

DEFINITION

1M0391L22F Mouse 10kb plasmid UUGC1M library Mus musculus genomic

clone UUGC1M0391L22 F, genomic survey sequence.

ACCESSION

AZ585898

VERSION

AZ585898.1 GI:11708088

KEYWORDS

GSS.

SOURCE

Mus musculus (house mouse)

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0391 row: L column: 22

Seq primer: CGTTGTAAACACGCGCCAGT

Class: plasmid ends

High quality sequence stop: 19.

Location/Qualifiers

1..19

/organism="Mus musculus"

/mol\_type="genomic DNA"

/strain="C57BL/6J"

/db\_xref="taxon:10090"

/clone="UUGC1M0391L22"

/sex="Male"

/lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"

/clone\_lib="Mouse 10kb plasmid UUGC1M library"

/notes=Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (GI|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 44.0%; Score 8.8; DB 8; Length 19;  
Best Local Similarity 83.3%; Pred. No. 8e+06;  
Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 GCATGACTTCT 16  
|||||  
Db 3 GCATGACTTCT 14

## RESULT 11

AG187931/c  
LOCUS 20 bp DNA linear GSS 06-MAR-2004  
DEFINITION Pan troglodytes DNA, clone: RP43-061C23.TJ, genomic survey sequence.

ACCESSION AG187931  
VERSION AG187931.1 GI:45220100  
KEYWORDS GSS.  
SOURCE Pan troglodytes (chimpanzee)  
ORGANISM

## REFERENCE

1 Park, H., Kim, Y., Kim, S., Han, Y., Woo, T., Park, K., Eun, C.J., Hoon, S.T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H. BAC end sequences of Library RP-43

## REFERENCE

2 (bases 1 to 20)  
Unpublished  
Park, H., Kim, Y., Kim, S., Han, Y., Woo, T., Park, K., Eun, C.J., Hoon, S.T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H. Direct Submission  
Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of Bioscience and Biotechnology (KRIIB), Genome Research Center (GRC); 52, Oun-dong, Yusong-gu, Daejeon 305-333, Korea  
(E-mail: redstone@mail.kribb.re.kr, URL: <http://phs.grc.kribb.re.kr/>, Tel: 82-42-866-7181, Fax: 82-42-860-4409)

Clones are derived from the chimpanzee BAC library RP-43 This BAC end was generated during the R&D process and may have higher chance of clone tracking errors.

## PRIMERS

Sequencing: TJ

## LIBRARY

Vector : pBACe3.6  
R.Site 1 : EcoRI  
R.Site 2 : EcoRI.

Location/Qualifiers

1. .20  
/organism="Pan troglodytes"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:9598"  
/clone="RP43-061C23.TJ"  
/sex="male"  
/cell\_type="lymphocytes"

FEATURES  
source

## ORIGIN

Query Match 44.0%; Score 8.8; DB 9; Length 20;  
Best Local Similarity 83.3%; Pred. No. 8.1e+06;  
Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 9 AGACTTCTCAGA 20  
|||||  
Db 13 AGCATCTTCAGA 2

## RESULT 12

AG200702/c  
LOCUS 20 bp DNA linear GSS 06-MAR-2004  
DEFINITION Pan troglodytes DNA, clone: RP43-082N04.TJ, genomic survey sequence.

ACCESSION AG200702  
VERSION AG200702.1 GI:45232877  
KEYWORDS GSS.  
SOURCE Pan troglodytes (chimpanzee)  
ORGANISM

## REFERENCE

1 Park, H., Kim, Y., Kim, S., Han, Y., Woo, T., Park, K., Eun, C.J., Hoon, S.T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H. BAC end sequences of Library RP-43

## REFERENCE

2 (bases 1 to 20)  
Unpublished  
Park, H., Kim, Y., Kim, S., Han, Y., Woo, T., Park, K., Eun, C.J., Hoon, S.T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H. Direct Submission  
Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of Bioscience and Biotechnology (KRIIB), Genome Research Center (GRC); 52, Oun-dong, Yusong-gu, Daejeon 305-333, Korea  
(E-mail: redstone@mail.kribb.re.kr, URL: <http://phs.grc.kribb.re.kr/>, Tel: 82-42-866-7181, Fax: 82-42-860-4409)

## COMMENT

Clones are derived from the chimpanzee BAC library RP-43 This BAC end was generated during the R&D process and may have higher chance of clone tracking errors.

## PRIMERS

Sequencing: TJ

## LIBRARY

Vector : pBACe3.6  
R.Site 1 : EcoRI  
R.Site 2 : EcoRI.

Location/Qualifiers

1. .20  
/organism="Pan troglodytes"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:9598"  
/clone="RP43-082N04.TJ"  
/sex="male"  
/cell\_type="lymphocytes"  
/clone\_lib="RP-43 Chimpanzee Male BAC Library"

## ORIGIN

Query Match 44.0%; Score 8.8; DB 9; Length 20;  
Best Local Similarity 83.3%; Pred. No. 8.1e+06;  
Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 CATGACTTCTC 17  
|||||  
Db 12 CATGAATTCCT 1

## RESULT 13

AJ684587/c  
LOCUS 16 bp mRNA linear EST 29-JUN-2004  
DEFINITION CSEQRAN04 Sus scrofa cDNA clone C0001805\_G15, mRNA sequence.  
ACCESSION AJ684587



```

VERSION      AJ684587.1  GI:49417177
KEYWORDS     EST.
SOURCE       Sus scrofa (pig)
ORGANISM     Sus scrofa
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
REFERENCE    1 (bases 1 to 16)
AUTHORS      Anderson,S.I., Finlayson,H.A. and Archibald,A.L.
TITLE        Development of cDNA and EST resources for studying reproduction and
             embryo development in pigs and cattle
JOURNAL      Unpublished (2004)
COMMENT      Contact: Anderson SI
             Genomics and Bioinformatics
             Roslin Institute
             Roslin, Midlothian, EH25 9PS, UNITED KINGDOM
             Single pass sequencing. Bases called and trimmed with phred
             v0.020425.c. Vector identified by cross_match with the -minscore 20
             and -minmatch 12 options. Vector:pBlueScriptII(KS+) R. Site1: EcoRI
             R. Site2: NotI 5' Seq Primer M13F Normalised library constructed
             from pig uterus. Clones available from UK Centre for Functional
             Genomics in Farm Animals, Roslin Institute, Roslin, Midlothian, UK,
             EH25 9PS, www.arkgenomics.org.
FEATURES     source
             1..16
             /organism="Sus scrofa"
             /mol_type="mRNA"
             /db_xref="taxon:9823"
             /clone="C0001805_G15"
             /tissue_type="uterus"
             /clone_lib="CSQRAN04"
             /note="Vector: pBlueScriptII(KS+); Site 1: EcoRI; Site 2:
             NotI: Single pass sequencing. Normalised library
             constructed from pig uterus."
ORIGIN
Query Match      43.0%; Score 8.6; DB 1; Length 16;
Best Local Similarity 73.3%; Pred. No. 1e+07;
Matches 11; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      3  CCGCATAGACTTCTC 17
        |||||
DB      15  CAGATAGACTCTTC 1

RESULT 14
AZ309116
LOCUS
DEFINITION  19 bp DNA linear GSS 29-SEP-2000
            clone UGCLM0012E23 R, genomic survey sequence.
ACCESSION  AZ309116
VERSION     AZ309116.1  GI:10349784
KEYWORDS    GSS.
SOURCE      Mus musculus (house mouse)
ORGANISM    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE    1 (bases 1 to 19)
AUTHORS      Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
            Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
            Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
            Niederhausern,A. and Wright,D.,Weiss,R.
TITLE        Mouse whole genome scaffolding with paired end reads from 10kb
            plasmid inserts
JOURNAL      Unpublished (2000)
COMMENT      Contact: Robert B. Weiss
            University of Utah Genome Center
            University of Utah
            Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
            84112, USA
            Tel: 801 585 5606
            Fax: 801 585 7177
            Email: ddunn@genetics.utah.edu
            Insert Length: 10000 Std Error: 0.00

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Plate: 0012 row: E column: 23
Seq primer: CACACGAGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 19.
FEATURES     source
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             /organism="Mus musculus"
             /mol_type="genomic DNA"
             /strain="C57BL/6J"
             /db_xref="taxon:10090"
             /clone="UGCLM0012E23"
             /sex="Male"
             /lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
             /clone_lib="Mouse 10kb plasmid UGCLM library"
             /note="Vector: PMD42nv; Purified genomic DNA from M.
             musculus C57BL/6J (male) was obtained from the Jackson
             Laboratory Mouse DNA Resource
             (http://www.jax.org/resources/documents/dnares/). The DNA
             was hydrodynamically sheared by repeated passage through a
             0.005 inch orifice at constant velocity. The sheared DNA
             was blunt end-repaired with T4 DNA polymerase and T4
             polynucleotide kinase. Adaptor oligonucleotides were
             ligated to the blunt ends in high molar excess. The
             adaptor DNA was purified and size-selected for a 9.5 to
             10.5 kb range using preparative agarose gel
             electrophoresis. Vector DNA was prepared from a derivative
             of PMD42 (gi|4732114|gb|AF129072.1), a copy-number
             inducible derivative of plasmid R1. The vector was ligated
             with adaptors complementary to the insert adaptors and
             purified. The sheared, adaptor mouse DNA was annealed to
             adaptor vector DNA, and transformed into
             chemically-competent E. coli XL10-Gold (Stratagene) cells
             and selected for ampicillin resistance."
ORIGIN
Query Match      43.0%; Score 8.6; DB 8; Length 19;
Best Local Similarity 73.3%; Pred. No. 1e+07;
Matches 11; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      2  ACCGCATAGACTTCT 16
        |||||
DB      5  ACCAAATCTACTTCT 19

RESULT 15
COT83852
LOCUS
DEFINITION  20 bp mRNA linear EST 05-AUG-2004
            BL279A_E02 6-Day Axolotl Tail Blastema (6DAXBL) Ambystoma mexicanum
            cDNA 5' similar to hypothetical protein, mRNA sequence.
ACCESSION  COT83852
VERSION     COT83852.1  GI:50999832
KEYWORDS    EST.
SOURCE      Ambystoma mexicanum (axolotl)
ORGANISM    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Amphibia; Batrachia; Caudata; Salamandroidea; Ambystomatidae;
            Ambystoma.
REFERENCE    1 (bases 1 to 20)
AUTHORS      Habermann,B., Bebin,A.G., Herklotz,S., Volkmer,M., Eckelt,K.,
            Pehlke,K., Epperlein,H.H., Schackert,H.K., Wiebe,G. and Tanaka,E.M.
            An Ambystoma mexicanum EST sequencing project: Analysis of 17,352
            expressed sequence tags from embryonic and regenerating blastema
            cDNA libraries
JOURNAL      Genome Biol. (2004) In press
COMMENT      Contact: Elly M. Tanaka
            Tanaka Lab
            Max Planck Institute of Molecular Cell Biology and Genetics,
            Dresden
            Pfotenhauserstrasse 108,01307 Dresden, Germany
            Tel: 0049 351 210 2620
            Fax: 0049 351 210 1489
            Email: tanaka@mpi-cbg.de
            Plate: BL279A row: 02 column: E

```

Seq primer: GCA CAT TAG GCC TAT TTA GGT GAC A.

## FEATURES

## source

Location/Qualifiers  
1..20  
/organism="Ambystoma mexicanum"  
/mol\_type="mRNA"  
/db\_xref="taxon:8296"  
/tissue\_type="Tail Blastema"  
/cell\_type="regenerating tail blastema"  
/clone\_lib="6-Day Axolotl Tail Blastema (6DAXBL)"  
/note="Vector: pCMVSPORT6; Site 1: NotI; Site 2: SalI;  
Unnormalized cDNA plasmid library prepared by Invitrogen.  
Size fractionated mRNA was polydT primed and cloned into  
NotI-Sali site of pCMVSPORT6. Bacterial host is  
EMDH10B-TONA. Average insert size is 1.67 kb.  
TAG\_LIB=6DAXBL"

## ORIGIN

Query Match 43.0%; Score 8.6; DB 7; Length 20;  
Best Local Similarity 73.3%; Pred. No. 1e+07;  
Matches 11; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 6 CATAGACTTCTCAGA 20  
||| ||| ||| ||| |||  
Db 2 CACTGATTTTCACAGA 16

## RESULT 16

## AZ440002

## LOCUS

1M0230E19R Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
clone UUGC1M0230E19 R, genomic survey sequence.

## ACCESSION

## VERSION

## KEYWORDS

## SOURCE

## ORGANISM

Mus musculus (house mouse)  
Mus musculus  
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

## REFERENCE

## AUTHORS

1 (bases 1 to 20)  
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
Islam,H., Longacre,S., Mahmood,M., Meenen,E., Pedersen,T.,  
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von  
Niederhausern,A. and Wright,D., Weiss,R.

Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts

## JOURNAL

## COMMENT

Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah Genome Center  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0230 row: E column: 19  
Seq primer: CACACAGGAACAGCTATGACC  
Class: plasmid ends  
High quality sequence stop: 20.  
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1..20  
/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC1M0230E19"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, Tl-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/note="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA

## FEATURES

## source

Location/Qualifiers  
1..20  
/organism="Ambystoma mexicanum"  
/mol\_type="mRNA"  
/db\_xref="taxon:8296"  
/tissue\_type="Tail Blastema"  
/cell\_type="regenerating tail blastema"  
/clone\_lib="6-Day Axolotl Tail Blastema (6DAXBL)"  
/note="Vector: pCMVSPORT6; Site 1: NotI; Site 2: SalI;  
Unnormalized cDNA plasmid library prepared by Invitrogen.  
Size fractionated mRNA was polydT primed and cloned into  
NotI-Sali site of pCMVSPORT6. Bacterial host is  
EMDH10B-TONA. Average insert size is 1.67 kb.  
TAG\_LIB=6DAXBL"

was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adapted DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of PWD42 (gi|4732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adapted mouse DNA was annealed to  
adapted vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

## ORIGIN

Query Match 43.0%; Score 8.6; DB 8; Length 20;  
Best Local Similarity 73.3%; Pred. No. 1e+07;  
Matches 11; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 ACCGCATGACTTCT 16  
||| ||| ||| ||| |||  
Db 6 ACCCATGACTTCT 20

## RESULT 17

## AJ648088

## LOCUS

17 bp mRNA linear EST 07-JUL-2004  
AJ648088 CSEQRAN19 Sus scrofa CDNA clone C0003263\_J08, mRNA  
sequence.

## ACCESSION

## VERSION

## KEYWORDS

## SOURCE

## ORGANISM

Sus scrofa (pig)  
Sus scrofa  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.

## REFERENCE

## AUTHORS

1 (bases 1 to 17)  
Anderson,S.I., Finlayson,H.A. and Archibald,A.L.  
Development of cDNA and EST resources for studying reproduction and  
embryo development in pigs and cattle

## JOURNAL

## COMMENT

Unpublished (2004)  
Contact: Anderson SI  
Genomics and Bioinformatics  
Roslin Institute  
Roslin, Midlothian, EH25 9PS, UNITED KINGDOM  
Single pass sequencing. Bases called and trimmed with phred  
v0.020425.c. Vector identified by cross match with the -minscore 20  
and -minmatch 12 options. Vector:pBlueScriptII(KS) R. Site1: EcoRI  
R. Site2: NotI 5; Seq Primer M13F Normalised library constructed  
from pooled ovaries. Clones available from UK Centre for Functional  
Genomics in Farm Animals, Roslin Institute, Roslin, Midlothian, UK,  
EH25 9PS, www.ark-genomics.org.

## FEATURES

## source

Location/Qualifiers  
1..17  
/organism="Sus scrofa"  
/mol\_type="mRNA"  
/db\_xref="taxon:9823"  
/clone="C0003263\_J08"  
/tissue\_type="ovary"  
/clone\_lib="CSEQRAN19"  
/note="Vector: pBlueScriptII(KS+); Site 1: EcoRI; Site 2:  
NotI; Single pass sequencing; Normalised library  
constructed from pooled ovaries"

## ORIGIN

Query Match 42.0%; Score 8.4; DB 1; Length 17;  
Best Local Similarity 90.0%; Pred. No. 1.3e+07;  
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 11 ACTTCTCAGA 20  
||||| |||

Db 17 ATTCTCAGA 8

RESULT 19  
AZ663240  
LOCUS  
DEFINITION  
ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM  
REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
COMMENT

AZ663240  
IM0542H18R Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
clone UUGC1M0542H18 R, genomic survey sequence.  
AZ663240  
GSS  
Mus musculus (house mouse)  
Mus musculus  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 19)  
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
Reilly, M., Rose, R., Rose, R., Stokes, R., Tingey, A., von  
Niederhausern, A. and Wright, D., Weiss, R.  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah Genome Center  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0542 row: H column: 18  
Seq primer: CACACAGAAACAGCTATGACC  
Class: plasmid ends  
High quality sequence stop: 19.  
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/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC1M0542H18"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/notes="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adapted DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of PWD42 (gi|4732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adapted mouse DNA was annealed to  
adapted vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

FEATURES  
source  
1..19  
/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC1M0542H18"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/notes="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adapted DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of PWD42 (gi|4732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adapted mouse DNA was annealed to  
adapted vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

ORIGIN  
Query Match 42.0%; Score 8.4; DB 8; Length 19;  
Best Local Similarity 66.7%; Pred. No. 1.3e+07;  
Matches 12; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
QY 1 GACCGCATAGACTTCTCA 18  
|||||

Db 5 ACTTCTCAGA 14

RESULT 18  
AZ313531/c  
LOCUS  
DEFINITION  
ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM  
REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
COMMENT

AZ313531  
IM0029N07R Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
clone UUGC1M0029N07 R, genomic survey sequence.  
AZ313531  
GSS  
Mus musculus (house mouse)  
Mus musculus  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 19)  
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
Reilly, M., Rose, R., Rose, R., Stokes, R., Tingey, A., von  
Niederhausern, A. and Wright, D., Weiss, R.  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah Genome Center  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0029 row: N column: 07  
Seq primer: CACACAGAAACAGCTATGACC  
Class: plasmid ends  
High quality sequence stop: 19.  
Location/Qualifiers  
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/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC1M0029N07"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/notes="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adapted DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of PWD42 (gi|4732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adapted mouse DNA was annealed to  
adapted vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

ORIGIN  
Query Match 42.0%; Score 8.4; DB 8; Length 19;  
Best Local Similarity 90.0%; Pred. No. 1.3e+07;  
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 11 ACTTCTCAGA 20  
|||||

Db	2	GACAGGATGACTCTCA 19	Db	19	AATTCTCAGA 10
RESULT 20			RESULT 21		
AZ303578/c			AZ771437/c		
LOCUS			LOCUS		
DEFINITION			DEFINITION		
ACCESSION	AZ303578	20 bp DNA linear	ACCESSION	AZ771437	20 bp DNA linear
VERSION	AZ303578	1M0003H07F Mouse 10kb plasmid UUGC1M library Mus musculus genomic	VERSION	AZ771437	1M0573P03R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
KEYWORDS		clone UUGC1M0003H07 F, genomic survey sequence.	KEYWORDS		clone UUGC1M0573P03 R, genomic survey sequence.
SOURCE			SOURCE		
ORGANISM			ORGANISM		
REFERENCE			REFERENCE		
AUTHORS			AUTHORS		
TITLE			TITLE		
JOURNAL			JOURNAL		
COMMENT			COMMENT		
FEATURES			FEATURES		
source			source		
1..20			1..20		
/organism="Mus musculus"			/organism="Mus musculus"		
/mol_type="genomic DNA"			/mol_type="genomic DNA"		
/strain="C57BL/6J"			/strain="C57BL/6J"		
/db_xref="taxon:10090"			/db_xref="taxon:10090"		
/clone="UUGC1M0003H07"			/clone="UUGC1M0573P03"		
/sex="Male"			/sex="Male"		
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"			/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"		
/clone_lib="Mouse 10kb plasmid UUGC1M library"			/clone_lib="Mouse 10kb plasmid UUGC1M library"		
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource			/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource		
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi 4732114 gb AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."			(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi 4732114 gb AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."		
ORIGIN			ORIGIN		
Query Match			Query Match		
Best Local Similarity			Best Local Similarity		
Matches			Matches		
9; Conservative			9; Conservative		
0; Mismatches			0; Mismatches		
1; Indels			1; Indels		
0; Gaps			0; Gaps		
0;			0;		
QY			QY		
11			6		
ACTTCTCAGA 20			CATAGACTTC 15		

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Db          11 CATAGAATTC 2

RESULT 22
CL423466
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM

CL423466      16 bp      DNA      linear      GSS 16-MAR-2004
01S0557-03A1-C11 UniformMu MutAIL Library Zea mays genomic clone
01S0557-03A1-C11, genomic survey sequence.
CL423466
CL423466.1   GI:45501510
GSS.
Zea mays
Zea mays
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
clade; Panicoideae; Andropogoneae; Zea.
1 (bases 1 to 16)
Sequence tagged transposon insertions from the UniformMu maize
population
Unpublished (2003)
Contact: Donald R. McCarty
Plant Molecular and Cellular Biology Program
University of Florida
PO 110690 Gainesville, FL 32611-0690, USA
Tel: 352-392-1928 x322
Email: drmc@ufl.edu
Sequence Sequence flanking probable Mu insertion site in UniformMu
line: 01S0557-03, Primer set: A
Class: transposon insertion site.
Location/Qualifiers
1..16
/organism="Zea mays"
/mol_type="genomic DNA"
/strain="W22 (ACR, bz1-m9)"
/cultivar="UniformMu"
/db_xref="taxon:4577"
/clone="01S0557-03A1-C11"
/notes="Vector: TOPO-PCR4; DNA flanking Mu transposon
insertions in Mu inactive lines were extracted from the
UniformMu maize population by the thermo asymmetric
interlaced PCR (TAIL) protocol using primers specific for
the Mu terminal inverted repeat and a set of 16 arbitrary
primers. Amplicons were size enriched using Sepharose 400
spin columns and cloned into the TOPO PCR4 vector."

FEATURES
source
Query Match      41.0%; Score 8.2; DB 9; Length 16;
Best Local Similarity 76.9%; Pred. No. 1.6e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      5 GCATAGACTTCTC 17
      |||||
      4 GAACAGACTTCCC 16

RESULT 23
AA916934/C
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM

AA916934      19 bp      mRNA      linear      EST 17-JUN-1998
0n14a09.s1 NCI CGAP Lu5 Homo sapiens cDNA clone IMAGE:1556632 3',
similar to SW:R13_MOUSE P28662 BRAIN PROTEIN I3 ;, mRNA sequence.
AA916934
AA916934.1   GI:3056326
EST.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 19)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index

JOURNAL
COMMENT
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality
Insert Length: 444 Std Error: 0.00
Seq primer: -40m13 fwd. ET from AmerSham
High quality sequence stop: 1.
Location/Qualifiers
1..19
/organism="Homo sapiens"
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/db_xref="taxon:9606"
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/tissue_type="carcinoid"
/lab_host="DH10B"
/clone_lib="NCI_CGAP_Lu5"
/notes="Organ: lung; Vector: pT7T3D-Pac (Pharmacia) with a
modified polylinker; 1st strand cDNA was prepared from
neuroendocrine lung carcinoid, and was then primed with a
Not I - oligo(dT) primer. Double-stranded cDNA was ligated
to Eco RI adaptors (Pharmacia), digested with Not I and
cloned into the Not I and Eco RI sites of the modified
pT7T3 vector. Library is normalized. Library was
constructed by Bento Soares and M. Fatima Bonaldo. "

ORIGIN
Query Match      41.0%; Score 8.2; DB 1; Length 19;
Best Local Similarity 76.9%; Pred. No. 1.7e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      7 ATAGACTTCTCAG 19
      |||||
      15 ATAGAGTTTGCAG 3

RESULT 24
AZ414372/C
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM

AZ414372      19 bp      DNA      linear      GSS 03-OCT-2000
1M0188G18R Mouse 10kb plasmid UUGCIM library Mus musculus genomic
clone UUGCIM0188G18 R, genomic survey sequence.
AZ414372
AZ414372.1   GI:10538385
GSS.
Mus musculus (house mouse)
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 19)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
Niederhausern, A. and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: dduwn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00

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Plate: 0188 row: G column: 18  
 Seq primer: CACACAGAAACAGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 19.

#### FEATURES

Location/Qualifiers  
 1. .19  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0188G18"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

#### ORIGIN

Query Match 41.0%; Score 8.2; DB 8; Length 19;  
 Best Local Similarity 76.9%; Pred. No. 1.7e+07;  
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 5 GCATAGACTTCTC 17  
 | | | | | | | |  
 Db 13 GTAAGACTCTC 1

RESULT 25  
 AZ436629/c  
 LOCUS  
 DEFINITION  
 1M0224019F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0224019 F, genomic survey sequence.  
 ACCESSION  
 AZ436629  
 VERSION  
 AZ436629.1 GI:10560642  
 KEYWORDS  
 GSS.  
 SOURCE  
 Mus musculus (house mouse)  
 ORGANISM  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 19)  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00

Plate: 0224 row: O column: 19  
 Seq primer: CGTTGTAACGACGCCAGT  
 Class: plasmid ends  
 High quality sequence stop: 19.

#### FEATURES

Location/Qualifiers  
 1. .19  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0224019"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

#### ORIGIN

Query Match 41.0%; Score 8.2; DB 8; Length 19;  
 Best Local Similarity 76.9%; Pred. No. 1.7e+07;  
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 6 CATAGACTTCTCA 18  
 | | | | | | | |  
 Db 18 CATCAAGTCTCA 6

RESULT 26  
 AZ454430/c  
 LOCUS  
 DEFINITION  
 1M0256F21F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0256F21 F, genomic survey sequence.  
 ACCESSION  
 AZ454430  
 VERSION  
 AZ454430.1 GI:10612555  
 KEYWORDS  
 GSS.  
 SOURCE  
 Mus musculus (house mouse)  
 ORGANISM  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 19)  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00

Plate: 0256 row: F column: 21  
 Seq primer: CGTTGTAAAAACGACGCCAGT  
 Class: plasmid ends  
 High quality sequence stop: 19.

## FEATURES

source  
 1. .19  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0256F21"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 41.0%; Score 8.2; DB 8; Length 19;  
 Best Local Similarity 76.9%; Pred. No. 1.7e+07;  
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 7 ATAGACTTCTCAG 19  
 ||| ||| ||| |||  
 Db 19 ATATAATTCACG 7

RESULT 27  
 AZ647364/c  
 LOCUS  
 DEFINITION  
 1M0513016R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0513016 R, genomic survey sequence.  
 ACCESSION  
 AZ647364  
 VERSION  
 GSS.  
 KEYWORDS  
 SOURCE  
 Mus musculus (house mouse)  
 ORGANISM  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 19)  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00

REFERENCE  
 AUTHORS  
 TITLE  
 JOURNAL  
 COMMENT

Plate: 0513 row: O column: 16  
 Seq primer: CACACAGGAACACGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 19.

## FEATURES

source  
 1. .19  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0513016"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

Query Match 41.0%; Score 8.2; DB 8; Length 19;  
 Best Local Similarity 76.9%; Pred. No. 1.7e+07;  
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1 GACCGCATAGACT 13  
 ||| ||| ||| |||  
 Db 13 GACAGCATACACT 1

RESULT 28  
 AZ655870  
 LOCUS  
 DEFINITION  
 1M05311N06F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M05311N06 F, genomic survey sequence.  
 ACCESSION  
 AZ655870  
 VERSION  
 GSS.  
 KEYWORDS  
 SOURCE  
 Mus musculus (house mouse)  
 ORGANISM  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 19)  
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.  
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts  
 Unpublished (2000)  
 Contact: Robert B. Weiss  
 University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00

REFERENCE  
 AUTHORS  
 TITLE  
 JOURNAL  
 COMMENT

Plate: 0531 row: N column: 06  
Seq primer: CGTTGTAACGACGGCCAGT  
Class: plasmid ends  
High quality sequence stop: 19.  
Location/Qualifiers

FEATURES  
source

1. .19  
/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC1M0531N06"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/note="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adaptored DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of pWD42 (gi|4732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adaptored mouse DNA was annealed to  
adaptored vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

ORIGIN

Query Match 41.0%; Score 8.2; DB 8; Length 19;  
Best Local Similarity 76.9%; Pred. No. 1.7e+07;  
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 ACCGATAGACTT 14  
| | | | |  
Db 6 ATCGCTCAGACTT 18

RESULT 29  
AZ783477

LOCUS  
DEFINITION  
2M0025D18F Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
clone UUGC2M0025D18 F, genomic survey sequence.

ACCESSION  
AZ783477.1 GI:12918241  
VERSION  
GSS.  
KEYWORDS  
SOURCE  
MUS musculus (house mouse)

ORGANISM

REFERENCE  
AUTHORS

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 19)  
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,  
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von  
Niederhausern,A. and Wright,D. Weiss R.

TITLE

Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah Genome Center  
University of Utah  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA

JOURNAL  
COMMENT

Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00

Plate: 0025 row: D column: 18  
Seq primer: CGTTGTAACGACGGCCAGT  
Class: plasmid ends  
High quality sequence stop: 19.  
Location/Qualifiers

FEATURES  
source

1. .19  
/organism="Mus musculus"  
/mol\_type="genomic DNA"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC2M0025D18"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, T1-resistant, F-"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/note="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adaptored DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of pWD42 (gi|4732114|gb|AF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adaptored mouse DNA was annealed to  
adaptored vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

ORIGIN

Query Match 41.0%; Score 8.2; DB 8; Length 19;  
Best Local Similarity 76.9%; Pred. No. 1.7e+07;  
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 CGCATAGACTTCT 16  
| | | | |  
Db 7 CGCATCTCTTCT 19

RESULT 30  
AJ594088/c

LOCUS  
DEFINITION  
AJ594088 Arabidopsis thaliana T-DNA flanking sequence, left border, clone  
392P11, genomic survey sequence.

ACCESSION  
AJ594088.1 GI:37943712  
VERSION  
GSS; left border; T-DNA flanking sequence.  
KEYWORDS  
SOURCE  
Arabidopsis thaliana (thale cress)

ORGANISM

REFERENCE  
AUTHORS

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;  
rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.  
1  
Brunaud,V., Balzerque,S., Dubreucq,B., Aubourg,S., Sanson,F.,  
Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G.,  
Lepiniec,L., Caboche,M. and Lecharny,A.

TITLE

T-DNA integration into the Arabidopsis genome depends on sequences  
of pre-insertion sites  
EMBO Rep. 3 (12), 1152-1157 (2002)  
22363535  
PUBMED  
12446565

REFERENCE  
2 (bases 1 to 12)

Balzerque,S.

Direct Submission

Submitted (23-OCT-2003)

Gaston Cremieux, 91057 Evry cedex, FRANCE

PCR was performed on DNA from transformants of Arabidopsis thaliana

plants from INRA (Versailles). The DNA fragment(s) resulting from



the PCR were directly sequenced from the left or the right border to determine the genomic sequence flanking the insertion. T-DNA derived sequences were removed. Information to order the corresponding mutant line and a link to a database providing a graphical display of the insertion site are available at <http://dbsgap.versailles.inra.fr/publiclines/>. This sequence has been generated in the framework of the French plant genomics program 'Genoplante' (<http://www.genoplante.com> and <http://genoplante-info.infobiogen.fr>).

## FEATURES

source

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1. .12
  Location/Qualifiers
  /organism="Arabidopsis thaliana"
  /mol_type="genomic DNA"
  /cultivar="Wassilewskija"
  /db_xref="taxon:3702"
  /clone="392Fill"
  /clone_lib="Arabidopsis thaliana T-DNA insertion lines"
misc_feature
1. .12
  /note="T-DNA flanking sequence
  left border"

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## ORIGIN

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Query Match      40.0%; Score 8; DB 9; Length 12;
Best Local Similarity 100.0%; Pred. No. 2e+07;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 ATAGACTT 14
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Db 10 ATAGACTT 3

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## RESULT 31

```

AZ345710
LOCUS          20 bp DNA linear GSS 29-SEP-2000
DEFINITION    AZ345710 Mouse 10kb plasmid UUGC1M library Mus musculus genomic
               clone UUGC1M0080H05 R, genomic survey sequence.
ACCESSION     AZ345710
VERSION       AZ345710.1 GI:10424947
KEYWORDS      GSS.
SOURCE        Mus musculus (house mouse)
ORGANISM      Mus musculus

```

## REFERENCE

```

AUTHORS       Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
               Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
               Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
               Niederhausern,A. and Wright,D..Weiss,R.
TITLE         Mouse whole genome scaffolding with paired end reads from 10kb
               plasmid inserts
JOURNAL       Unpublished (2000)
COMMENT       Contact: Robert B. Weiss
               University of Utah Genome Center
               Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
               84112, USA
               Tel: 801 585 5606
               Fax: 801 585 7177
               Email: ddunn@genetics.utah.edu

```

```

Insert Length: 10000 Std Error: 0.00
Plate: 0080 row: H column: 05
Seq primer: CACACAGGAACACGATGACC
Class: plasmid ends
High quality sequence stop: 20.

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## FEATURES

source

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1. .20
  Location/Qualifiers
  /organism="Mus musculus"
  /mol_type="genomic DNA"
  /strain="C57BL/6J"
  /db_xref="taxon:10090"
  /clone="UUGC1M0080H05"
  /sex="Male"
  /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"

```

/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

## ORIGIN

```

Query Match      40.0%; Score 8; DB 8; Length 20;
Best Local Similarity 68.8%; Pred. No. 2.2e+07;
Matches 11; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 ACCGCATAGACTTCTC 17
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Db 2 AACATATAGTTTCTC 17

```

## RESULT 32

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CL423876
LOCUS          14 bp DNA linear GSS 16-MAR-2004
DEFINITION    01S0750-04C1-D08 UniformMu MutAIL Library Zea mays genomic clone
               01S0750-04C1-D08, genomic survey sequence.
ACCESSION     CL423876
VERSION       CL423876.1 GI:45501920
KEYWORDS      GSS.
SOURCE        Zea mays
ORGANISM      Zea mays

```

```

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
clade; Panicoideae; Andropogoneae; Zea.
1 (bases 1 to 14)
Lathaw,S., Tan,B.-C., Settles,A.M. and McCarty,D.R.
Sequence tagged transposon insertions from the UniformMu maize
population
Unpublished (2003)
Contact: Donald R. McCarty
Plant Molecular and Cellular Biology Program
University of Florida
PO 110690 Gainesville, FL 32611-0690, USA
Tel: 352-392-1928 x322
Email: drmc@ufl.edu

```

```

Sequence flanking probable Mu insertion site in UniformMu
line: 01S0750-04, Primer set: C
Class: transposon insertion site.
Location/Qualifiers
1. .14
  /organism="Zea mays"
  /mol_type="genomic DNA"
  /strain="W22 (ACR, bz1-m9)"
  /cultivar="UniformMu"
  /db_xref="taxon:4577"
  /clone="01S0750-04C1-D08"
  /clone_lib="UniformMu MutAIL Library"
  /note="Vector: TOPO-PCR4; DNA flanking Mu transposon
  insertions in Mu inactive lines were extracted from the
  UniformMu maize population by the thermo asymmetric
  interlaced PCR (TAIL) protocol using primers specific for
  the Mu terminal inverted repeat and a set of 16 arbitrary
  primers. Amplicons were size enriched using Sepharose 400

```

## FEATURES

source

```

1. .14
  Location/Qualifiers
  /organism="Zea mays"
  /mol_type="genomic DNA"
  /strain="W22 (ACR, bz1-m9)"
  /cultivar="UniformMu"
  /db_xref="taxon:4577"
  /clone="01S0750-04C1-D08"
  /clone_lib="UniformMu MutAIL Library"
  /note="Vector: TOPO-PCR4; DNA flanking Mu transposon
  insertions in Mu inactive lines were extracted from the
  UniformMu maize population by the thermo asymmetric
  interlaced PCR (TAIL) protocol using primers specific for
  the Mu terminal inverted repeat and a set of 16 arbitrary
  primers. Amplicons were size enriched using Sepharose 400

```

```

spin columns and cloned into the TOPO PCR4 vector."

ORIGIN
Query Match          39.0%; Score 7.8; DB 9; Length 14;
Best Local Similarity 81.8%; Pred. No. 2.6e+07;
Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 8 TAGACTTCTCA 18
    |||||
Db 3 TCGACGCTCTCA 13

RESULT 33
LOCUS CL438505
DEFINITION PST7640-NL-Seq M1CB1 Mus musculus genomic clone PST7640-NL-Seq
similar to Eif4a2, genomic survey sequence.
ACCESSION CL438505
VERSION CL438505.1 GI:45575122
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS 1 (bases 1 to 14)
TITLE Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
JOURNAL Hicks,G.G.
COMMENT www.Escells.ca
Unpublished (2002)
Contact: Hicks GG
Mammalian Functional Genomics Centre
Manitoba Institute of Cell Biology, University of Manitoba
ON5029, 675 McDermot Ave, Winnipeg, MB R3E 0V9, Canada
Tel: 204 787 2133
Fax: 204 787 2190
Email: hicks@gcc.umanitoba.ca
U3NeosV1 gene trap. Tag generated by plasmid rescue. Additional
sequence information and target gene cloning can be generated. BS
cell line harboring insertion mutation of target gene is available.
Sequence analysis available from
http://140.193.242.7/esdb/public_search_frame.php?PST=PST7640-NL.Se
q
Class: Gene Trap.
Location/Qualifiers
1. .14
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="129 sv"
/db_xref="taxon:10090"
/clone="PST7640-NL-Seq"
/sex="Male"
/cell_type="Embryonic stem cell"
/cell_line="D3H (J1 subclone)"
/clone_lib="M1CB1"
/notes="Vector: U3NeosV1"

ORIGIN
Query Match          39.0%; Score 7.8; DB 9; Length 14;
Best Local Similarity 81.8%; Pred. No. 2.6e+07;
Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 GCATAGACTTC 15
    |||||
Db 4 GCATAAATCTAC 14

RESULT 34
AJ587709
LOCUS AJ587709
DEFINITION Arabidopsis thaliana T-DNA flanking sequence, left border, clone
312G06, genomic survey sequence.
ACCESSION AJ587709
VERSION AJ587709.1 GI:37937333
KEYWORDS GSS; left border; T-DNA flanking sequence.

spin columns and cloned into the TOPO PCR4 vector."

ORIGIN
Query Match          39.0%; Score 7.8; DB 9; Length 14;
Best Local Similarity 81.8%; Pred. No. 2.6e+07;
Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 8 TAGACTTCTCA 18
    |||||
Db 3 TCGACGCTCTCA 13

RESULT 33
LOCUS CL438505
DEFINITION PST7640-NL-Seq M1CB1 Mus musculus genomic clone PST7640-NL-Seq
similar to Eif4a2, genomic survey sequence.
ACCESSION CL438505
VERSION CL438505.1 GI:45575122
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS 1 (bases 1 to 14)
TITLE Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
JOURNAL Hicks,G.G.
COMMENT www.Escells.ca
Unpublished (2002)
Contact: Hicks GG
Mammalian Functional Genomics Centre
Manitoba Institute of Cell Biology, University of Manitoba
ON5029, 675 McDermot Ave, Winnipeg, MB R3E 0V9, Canada
Tel: 204 787 2133
Fax: 204 787 2190
Email: hicks@gcc.umanitoba.ca
U3NeosV1 gene trap. Tag generated by plasmid rescue. Additional
sequence information and target gene cloning can be generated. BS
cell line harboring insertion mutation of target gene is available.
Sequence analysis available from
http://140.193.242.7/esdb/public_search_frame.php?PST=PST7640-NL.Se
q
Class: Gene Trap.
Location/Qualifiers
1. .14
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="129 sv"
/db_xref="taxon:10090"
/clone="PST7640-NL-Seq"
/sex="Male"
/cell_type="Embryonic stem cell"
/cell_line="D3H (J1 subclone)"
/clone_lib="M1CB1"
/notes="Vector: U3NeosV1"

ORIGIN
Query Match          39.0%; Score 7.8; DB 9; Length 18;
Best Local Similarity 81.8%; Pred. No. 2.7e+07;
Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GACCGCATAGA 11
    |||||
Db 2 GACCTCATCGA 12

RESULT 35
AZ355195
LOCUS AZ355195
DEFINITION 1M0094G22R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0094G22 R, genomic survey sequence.
ACCESSION AZ355195
VERSION AZ355195.1 GI:10467355
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS 1 (bases 1 to 19)
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss

```

```

Arabidopsis thaliana (thale cress)
Arabidopsis thaliana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsi.
1
Brunaud,V., Balzergue,S., Dubreucq,B., Aubourg,S., Samson,F.,
Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G.,
Lepintec,L., Caboche,M. and Lecharny,A.
T-DNA integration into the Arabidopsis genome depends on sequences
of pre-insertion sites
EMBO Rep. 3 (12), 1152-1157 (2002)
22363535
12446565
2 (bases 1 to 18)
Balzergue,S.
Direct Submission
Submitted (23-OCT-2003) Balzergue S., UMRGV, INRA/CNRS, 2 rue
Gaston Cremieux, 91057 Evry cedex, FRANCE
PCR was performed on DNA from transformants of Arabidopsis thaliana
plants from INRA (Versailles). The DNA fragment(s) resulting from
the PCR were directly sequenced from the left or the right border
to determine the genomic sequence flanking the insertion. T-DNA
derived sequences were removed. Information to order the
corresponding mutant line and a link to a database providing a
graphical display of the insertion site are available at
http://dbgap.versailles.inra.fr/publiclines/. This sequence has
been generated in the framework of the French plant genomics
program 'Genoplante' (http://www.genoplante.com and
http://genoplante-info.infobiogen.fr).
Location/Qualifiers
1. .18
/organism="Arabidopsis thaliana"
/mol_type="genomic DNA"
/cultivar="Wassillewskija"
/db_xref="taxon:3702"
/clone="312G06"
/clone_lib="Arabidopsis thaliana T-DNA insertion lines"
misc_feature 1. .18
/notes="T-DNA flanking sequence
left border"

ORIGIN
Query Match          39.0%; Score 7.8; DB 9; Length 18;
Best Local Similarity 81.8%; Pred. No. 2.7e+07;
Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GACCGCATAGA 11
    |||||
Db 2 GACCTCATCGA 12

RESULT 35
AZ355195
LOCUS AZ355195
DEFINITION 1M0094G22R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0094G22 R, genomic survey sequence.
ACCESSION AZ355195
VERSION AZ355195.1 GI:10467355
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS 1 (bases 1 to 19)
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss

```

University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0094 Row: G Column: 22  
 Seq primer: CACACAGGAAACGCTATGACC  
 Class: plasmid ends  
 High quality sequence stop: 19.  
 Location/Qualifiers

# FEATURES

1. 19  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0094G22"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, Tl-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

# ORIGIN

Query Match 39.0%; Score 7.8; DB 8; Length 19;  
 Best Local Similarity 81.8%; Pred. No. 2.7e+07;  
 Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ACCGCATAGAC 12  
 |||||  
 Db 4 ACAGCATACAC 14

RESULT 36  
 AZ422531/c  
 LOCUS  
 DEFINITION 19 bp DNA linear GSS 03-OCT-2000  
 clone UUGC1M0094G22 F, genomic survey sequence.  
 AZ422531  
 VERSION  
 GSS.  
 SOURCE  
 Mus musculus (house mouse)

ORGANISM  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.  
 1 (bases 1 to 19)  
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
 Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von  
 Niederhausern, A. and Wright, D., Weiss, R.

AUTHORS  
 TITLE  
 Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts  
 JOURNAL  
 Unpublished (2000)  
 COMMENT  
 Contact: Robert B. Weiss

University of Utah Genome Center  
 University of Utah  
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
 84112, USA  
 Tel: 801 585 5606  
 Fax: 801 585 7177  
 Email: ddunn@genetics.utah.edu  
 Insert Length: 10000 Std Error: 0.00  
 Plate: 0201 row: E column: 16  
 Seq primer: CGTTGTAACGACGCGCAGT  
 Class: plasmid ends  
 High quality sequence stop: 19.  
 Location/Qualifiers

# FEATURES

1. 19  
 /organism="Mus musculus"  
 /mol\_type="genomic DNA"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone="UUGC1M0201E16"  
 /sex="Male"  
 /lab\_host="E. Coli strain XL10-Gold, Tl-resistant, F-"  
 /clone\_lib="Mouse 10kb plasmid UUGC1M library"  
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

# ORIGIN

Query Match 39.0%; Score 7.8; DB 8; Length 19;  
 Best Local Similarity 81.8%; Pred. No. 2.7e+07;  
 Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 7 ATAGACTTCTC 17  
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 Db 19 ATATTCTTCTC 9

RESULT 37  
 AZ875430

LOCUS  
 DEFINITION 19 bp DNA linear GSS 21-FEB-2001  
 clone UUGC2M0189K09 R, genomic survey sequence.  
 AZ875430  
 VERSION  
 GSS.  
 SOURCE  
 Mus musculus (house mouse)

ORGANISM  
 Mus musculus  
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.  
 1 (bases 1 to 19)  
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,  
 Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von  
 Niederhausern, A. and Wright, D., Weiss, R.  
 TITLE  
 Mouse whole genome scaffolding with paired end reads from 10kb  
 plasmid inserts  
 JOURNAL  
 Unpublished (2000)  
 COMMENT  
 Contact: Robert B. Weiss

```

University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0189 row: K column: 09
Seq primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
1..19
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0189K09"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGCLM library"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (GI:4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
adaptored vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

FEATURES
source
Query Match 39.0%; Score 7.8; DB 8; Length 19;
Best Local Similarity 81.8%; Pred. No. 2.7e+07;
Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 10 GACTTCTCAGA 20.
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Db 2 GACTTGTCTGA 12

RESULT 38
AJ595189/c 19 bp DNA linear GSS 15-JAN-2004
LOCUS Arabidopsis thaliana T-DNA flanking sequence, left border, clone
DEFINITION 412H07, genomic survey sequence.
ACCESSION AJ595189
VERSION AJ595189.1 GI:37944813
KEYWORDS GSS; left border; T-DNA flanking sequence.
SOURCE Arabidopsis thaliana (thale cress)
ORGANISM Arabidopsis thaliana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsids.
1
Brunaud,V., Balzerque,S., Dubreucq,B., Aubourg,S., Samson,F.,
Chauvin,S., Bechtold,N., Cruaud,C., DeRose,R., Pelletier,G.,
Lepiniec,L., Caboche,M. and Lecharny,A.
T-DNA integration into the Arabidopsis genome depends on sequences
of pre-insertion sites
EMBO Rep. 3 (12), 1152-1157 (2002)
22363535
PUBMED 12446565
REFERENCE 2 (bases 1 to 19)
AUTHORS Direct Submission
TITLE Submitted (23-OCT-2003) Balzerque S., UMRGV, INRA/CNRS, 2 rue
Gaston Cremieux, 91057 Evry cedex, FRANCE
COMMENT PCR was performed on DNA from transformants of Arabidopsis thaliana
plants from INRA (Versailles). The DNA fragment(s) resulting from
the PCR were directly sequenced from the left or the right border
to determine the genomic sequence flanking the insertion. T-DNA
derived sequences were removed. Information to order the
graphical display of the insertion site are available at
http://dbgap.versailles.inra.fr/publiclines/. This sequence has
been generated in the framework of the French plant genomics
program 'Genoplante' (http://www.genoplante.com and
http://genoplante-info.infobiogen.fr).

12446565
PUBMED 12446565
REFERENCE 2 (bases 1 to 19)
AUTHORS Direct Submission
TITLE Submitted (23-OCT-2003) Balzerque S., UMRGV, INRA/CNRS, 2 rue
Gaston Cremieux, 91057 Evry cedex, FRANCE
COMMENT PCR was performed on DNA from transformants of Arabidopsis thaliana
plants from INRA (Versailles). The DNA fragment(s) resulting from
the PCR were directly sequenced from the left or the right border
to determine the genomic sequence flanking the insertion. T-DNA
derived sequences were removed. Information to order the
graphical display of the insertion site are available at

```

<http://dbgap.versailles.inra.fr/publiclines/>. This sequence has been generated in the framework of the French plant genomics program 'genoplante' (<http://www.genoplante.com> and <http://genoplante-info.infobiogen.fr>).

Search completed: August 12, 2005, 12:11:45  
Job time : 1785 secs

## FEATURES

source

Location/Qualifiers

1..19  
/organism="Arabidopsis thaliana"  
/mol\_type="genomic DNA"  
/cultivar="Wassillewskija"  
/db\_xref="taxon:3702"  
/clone="481A05"  
/clone\_lib="Arabidopsis thaliana T-DNA insertion lines"  
1..19  
/note="T-DNA flanking sequence  
left border"

misc\_feature

## ORIGIN

Query Match 39.0%; Score 7.8; DB 9; Length 19;  
Best Local Similarity 81.8%; Pred. No. 2.7e+07;  
Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 CCGCATAGACT 13

Db 4 CAGCATATACT 14

## RESULT 40

CL683526

LOCUS

DEFINITION

CL683526 19 bp DNA linear GSS 09-JUL-2004  
PRI0137a\_F08\_2 - PRI0137a.BR (19) Mixed stage fosmid library of P.  
pacificus var. California Pristionchus pacificus genomic, genomic  
survey sequence.

ACCESSION CL683526

VERSION CL683526.1 GI:50191279

KEYWORDS GSS.

SOURCE

ORGANISM

Pristionchus pacificus  
Pristionchus pacificus  
Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida;  
Neodiplogasteridae; Pristionchus.

REFERENCE

AUTHORS

TITLE

Srinivasan,J., Otto,G.W., Kahlow,U., Geisler,R. and Sommer,R.J.  
AppADB: an AcedB database for the nematode satellite organism

JOURNAL

COMMENT

Nucleic Acids Res 32 (1), D421-D422 (2004)  
Contact: Sommer RJ

Evolutionary Biology  
Max-Planck-Institute for Developmental Biology  
Spemannstr. 37-39, Tuebingen D-72076, Germany  
Tel: 00497071601371  
Fax: 00497071601498  
Email: ralf.sommer@tuebingen.mpg.de  
This library was generated at Caltech, Pasadena, USA and end  
sequenced at Vancouver, Canada.  
Seq primer: T7  
Class: fosmid ends.

## FEATURES

source

Location/Qualifiers

1..19  
/organism="Pristionchus pacificus"  
/mol\_type="genomic DNA"  
/strain="California"  
/db\_xref="taxon:54126"  
/clone\_lib="Mixed stage fosmid library of P. pacificus  
var. California"  
/note="Vector: pEpifos-5 Fosmid vector"

## ORIGIN

Query Match 39.0%; Score 7.8; DB 9; Length 19;  
Best Local Similarity 81.8%; Pred. No. 2.7e+07;  
Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GACCGCATAGA 11

Db 7 GTCTCATAGA 17

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